Leadership in equipment and services for power generation, energy transmission and rail transport.

Present in Brazil for 60 years, Alstom group has been participating in the development of the country’s infrastructure, contributing to the social progress and respecting the environment. Alstom relies on a team with more than 5,500 employees, 15 units installed, sales of R$ 3.1 billion and orders received worth of R$6 billion (between April 1st, 2013 and March 31st, 2014).

In the rail transport sector, its contribution is attested with products and services in most passenger operators, such as São Paulo Metro, Rio de Janeiro Metro, Brasília Metro and, over the past five years, it has been implementing technological solutions for freight transport operators such as Vale.

In the power generation sector, it is participating in large hydro projects, such as Santo Antônio, Jirau and Belo Monte. It is also present, with its products and services, in Itaipu and Tucurui hydro plants, the TermoBahia and TermoRio thermal plants, wind power and in the industrial market, with environmental control systems.

The transmission sector is recognized as HV technology, energy efficiency and turnkey solutions (AC, DC and FACTS) top provider in Brazil with global excellence centres in instrument transformers and shunt reactors, and has important references on turnkey projects.

Alstom Units in Brazil
INFORMATION & KEY FIGURES

15 units installed in the country:

- Água Branca: Offices and engineering from systems, automation and services units
- Bandeirantes: Alstom’s headquarters in Brazil and Latin America. Engineer in the areas of power generation and rail signalling.
- Camaçari: Alstom first wind turbine plant in the American continent
- Canoas (Grid): Alstom’s world centre of excellence for shunt reactors and power transformers manufacturer.
- Canoas (Wind): second wind plant in Brazil, dedicated to the production of towers for wind turbines.
- Cabreúva: unit dedicated exclusively to the modernization of trains.
- Engeman / Jaguariúna: unit specializing in maintenance services for systems and equipment for medium, high and extra-high voltage.
- IMMA: Indústria Metalúrgica e Mecânica da Amazônia, the first capital goods industry in the North region of Brazil and the result of a 50/50 joint venture between Alstom and Bardella, to manufacture hydromechanical and lifting equipment for hydroelectric projects.
- Itajubá: Alstom’s world centre of excellence for instrument transformers and air core reactors and high voltage circuit breakers and disconnectors manufacturer.
- Jacobina (TEN – joint venture with Andrade Gutierrez) - factory in Bahia State (Northeast of Brazil) to produce steel towers for wind turbines.
- Lapa: Alstom’s world center of excellence for the development and manufacturing of passengers trains (metro and suburban) and rail infrastructure. Also offers maintenance and modernization services for passenger and freight rolling stock.
- Reason: both units (headquarter and branch) are focused on supplier measurement and substation automation network products for transmission and distribution clients (T&D)
- Taubaté: Alstom’s world centre of excellence for development and manufacturing of turbines, generators and electro-mechanical and lifting equipment.
- Taubaté: new manufacturing line dedicated to tramways.

Rio de Janeiro Office – RJ - Capital

More than 5,500 employees
Sales (2013/2014): R$3,1 billion
Orders received (2013/2014): R$6 billion
Alstom in Brazil
60 years of contribution to Brazil

Alstom Presence in the Customers Worksites

Power Generation – References and Ongoing Projects

Alstom is the leader in the hydroelectric generation sector in Brazil. The Group has supplied more than 100 turbines and generators to the Brazilian market over past 10 years and has been the major power generation equipment supplier for the country’s largest hydroelectric projects. Its Brazilian unit exports to several countries over the world, especially Latin America, and employs around 2300 people locally.

RENEWABLE POWER

Hydro

**Baixo Iguaçu** (350MW): supply of three Kaplan hydro turbines, generators, control command and protection systems as well as electromechanical and erection equipment. The hydro power plant will be equipped with the biggest vertical Kaplan turbines.

**Belo Monte** (11,230 MW): supply of seven Francis units, hydro-mechanical equipment and associated Gas Insulated Substations (GIS) for the fourteen large-scale units.

**Cachoeira Caldeirão** (219MW): Alstom will supply three bulb generation units, gates, balance of plant, hydromechanical and erection equipment. The plant should be fully operational in 2017.

**Estreito** (1,088 MW): supply of electro mechanical equipment to the hydropower (6 X 136 MW generators), busbar, hydro mechanical & lifting equipment as well as erection supervision.

**Foz do Chapecó** (855 MW): production, delivery and supervision of installation of the equipment for the four generating units of 213.75 MW). Alstom will also provide all hydro mechanical equipment, lifting equipment, four generating units (vertical synchronous generator and Francis turbine), transformers, digital surveillance and control, plus all the auxiliary systems and mechanical electric to the power plant.
Igarapava (210MW): supply of five Bulb generators, 6 segment gates and 1 caisson gate both of them for the spillway.

Itaipu Binacional (14,000 MW): 10 of the 20 generating units of the power plant, each with 700MW of capacity. Since Alstom delivered the last generating unit on March 2007 completing the project, the power plant had its output increased from 12,600 MW to 14,000 MW.

Jirau (3,300 MW): supply part of the equipment (10 Bulb turbines and 17 generators), as well as all of the 28 speed governors, monitoring systems, bus bars and surge/neutral devices; this represents around 48% of this contract. The contract scope also includes supervision of erection and commissioning.

Salto Caxias (1,240 MW): supply of four generators, besides hydro-mechanicals equipment and systems.

Santo Antônio (3,150 MW): supply of electro mechanical (19 bulb turbines and 22 generators) and hydro mechanical equipment (50% of the project's hydro mechanical and lifting equipment).

Santo Antonio do Jari (370MW): supply of three Kaplan units, hydromechanical equipment, lifting equipment, DCS, supervision of erection.

Serra da Mesa (1,275MW): supplier of the three generating units, including Francis turbine and generators, with 430MW each one.

Teles Pires (1,800 MW): supply of five Francis units, regulators, hydro-mechanical and lifting equipment.

Tucurui (8,370 MW): supply of 71% of generators and 75% of turbines, and associated equipment, of the total of 11 generating units of 375 MW each.

International Projects

Chaglla (Peru): Hydro power plant (450 MW) with Odebrecht.

El Quimbo (Colombia): Hydro power plant (400 MW) with ENDESA.

Ituango (Colombia): supply of eight 300 MW Francis turbines, with their respective speed regulators and cylindrical gates, and eight generators with their respective excitation systems and bus bar. Alstom will be the unique turbines and generators supplier for the project.

La Vueltosa (Venezuela): contract to provide electromechanical equipment to the plant (514 MW).

Manduriacu: Supply 2 Kaplan turbines of 30 MW each, generators and the control system to the hydro power plant in Guayllabamba River, Ecuador. The consortium will also be responsible for hydromechanical equipment and balance of plant.

Três Gargantas (China): supply of six pre-distributors and six turbine distributors.

Wind

Brasventos: equipment and services to three wind farms located in Rio Grande do Norte State (northeast region) and will have a forecasted production of 580,000 MWh per year.

Brotas Complex: supply of 57 ECO 86 wind turbines of 1.67 MW each.

Caldeirão Grande I and II: contract with Queiroz Galvão to deliver, erect and commission ECO 122 wind turbines.

Casa dos Ventos: contract with Casa dos Ventos, one of the largest Brazilian wind power generation developers, to provide 68 wind ECO 122 wind turbines, as well as operation and maintenance for wind farms located in the state of Rio Grande do Norte. The project has 180MW of output capacity.

Corredor Senandes: A contract by Odebrecht Energia for the supply of four wind farms in the South of Brazil. The wind farms, Corredor do Senandes II, III and IV, and Vento Aragano I, which are located in the state of Rio Grande do Sul, will reach a total capacity of 108 MW.

Pontal: contract with Enerplan to supply 10 wind turbines ECO 122, with a capacity of 2.7 MW each.
Queiroz Galvão: contract with Queiroz Galvão, one of the main infrastructure groups in Brazil, to do the installation and commissioning of ECO 122 wind turbines in two wind complexes, located in the North-East of Brazil. The contracts cover the manufacturing, delivery, as well as operation and maintenance of the turbines for 10 years.

Renova Energia: supply, operate and maintain in Brazil around 440 onshore wind turbines from 2.7 MW to 3 MW each, these turbines will represent a minimum of 1,200 MW in new wind power generation capacity. In July 2014, Alstom has closed a new contract to deliver, construct and commission 127 wind turbines for the Umburanas complex in Bahia.

THERMAL POWER

Industrial

Andritz (Eldorado), Brazil (ESP P&P): one electrostatic precipitator to collect the particulate material resulted of the Lime Kiln machine.

CBC (Eldorado): one electrostatic precipitator to collect the particulate material resulted of the Power Boiler.

CBC Klabin: one electrostatic precipitator to collect the particulate material resulted of the Power Boiler.

CSN (Sinter 3): one electrostatic precipitator to collect the particulate material resulted of the sinter process.

Dow (Candeias): one electrostatic precipitator to collect particulate material in flue gas derived from combustion of biomass.

Metso (Eldorado): three electrostatic precipitators for the cellulose plant recovery boiler, to collect the particulate material resulted of the plant’s chemical process.

Metso (Imperatriz): one electrostatic precipitator for the cellulose plant recovery boiler, to collect the particulate material resulted of the plant's chemical process and one electrostatic precipitator to collect the particulate material resulted of the Power Boiler.

Petrobras (RNest): four electrostatic precipitators to collect particulate material of a Petrochemical plant.

Suzano (Mucuri): one electrostatic precipitator to collect particulate material from the production of pulp and paper.

Tractebel (Santa Catarina): replacement of two existing electrostatic precipitators in Thermoelectric Complex Jorge Lacerda, in Capivari de Baixo, and recently, supply of two more precipitators in the same plant

Usiminas Sinter 2: electrostatic precipitator applied to a sintering plant, including the modernization of the existing precipitator.

Thermal

Celso Furtado (TermoBahia: 200 MW): Turnkey contract, including 1 GT24 gas turbine, 1 recovery boiler and 1 steam turbine.

Central Termelétrica Fortaleza (TermoFortaleza: 310 MW): Plant CC with 2 GT11N2.

Fernando Gasparian (TermoNova Piratininga: 1,040 MW): Provision of 4 GT11N2 gas turbines and 4 recovery boilers.

Governador Leonel Brizola (TermoRio: 1,040 MW + 400 Ton/h Steam): Combined cycle, arranged in three blocks of 2 x GT11N2 + 2 recovery boilers + 1 x steam turbine each. The first block also provides steam to PB-REDUC refinery.

ThyssenKrupp CSA Siderúrgica do Atlântico (490 MW): Combined cycle plant, with 2 GT11N2 gas turbines, with 100 MW capacity each and coupled to 2 recovery boilers, in addition to 1 steam turbine with capacity for 300 MW.

Petrobras: Renewal of the maintenance contract to provide technical assistance to 11 gas turbines, four steam turbines and 14 generators installed in their power plants combined cycle Governor Brizola (Termorio), Fernando Gasparian (Piratininga) and Celso Furtado (Termobahia).

O&M (Operation and Maintenance)

Celso Furtado (TermoBahia), Central Termelétrica Fortaleza (TermoFortaleza), Fernando Gasparian (TermoNova Piratininga), Governador Leonel Brizola (Termorio): Support for operation and maintenance of the plant.
Alstom in Brazil

60 years of contribution to Brazil

Jorge Lacerda A: Assembly supervision and commissioning of a dust removal system for units 3 and 4 of the plant, including services for replacement of the current system and auxiliary equipment.

Kobrasco (Usina VII): Assembly, supervision and commissioning of 1 electrostatic precipitator for the plant.

ThyssenKrupp CSA Siderúrgica do Atlântico (CSA): Support to Plant Maintenance.

Power Transmission & Smart Grid – References and Ongoing Projects

In Brazil, the new Sector has more than 1,300 employees in three units (Água Branca, Canoas and Itajubá) and has complete HV switchyard equipment portfolio with local manufacturing. It is also recognized as HV technology, automation and network management, as well as energy efficiency and turnkey solutions (AC, DC and FACTS) top provider in Brazil.

Marapicu: contract for one 138/13,8kV substation to Light. The substation is located in Rio de Janeiro and was energized in October, 2010.

Miranda II: extension contract for one 500kV substation with 4 line bay and 1 auto-transformer bay to Eletronorte. The energization took place in November, 2010.

Norte-Sul 3: turnkey contract for the supply of five 500kV substations for Intesa (2 new ones, 3 extensions – Serra Mesa II, Peixe II, Gurupi, Colinas, and Miracema). The project is a part of the third circuit of the North-South transmission line in Brazil and was delivered in May, 2008.

Parnaíba: Phases 1 and 2 of a turnkey contract signed with Duro Felguera, to supply two substations of 500kV 2 +3 transformers of 208MVA to connect the MPX thermoelectric to the network.

Resende: contract for the supply of 1 AIS 500/138/33kV 2 x 120MVA and 1 AIS 138/24kV 120MVA for Votorantim Metais, including design and engineering, the supply of all equipment, civil works, construction, commissioning and training. The energization took place in May, 2009.

Salobo: contract to supply one 230kV substation to Vale, including all protection and control systems, telecommunication, HV equipment (disconnectors and circuit breakers), metering for billing, commissioning, training and start-up. The substation is located in Carajás, North of Brazil and was energized in July, 2011.

Viana: contract for the supply of one 345/138kV 2x225 substation for Furnas. The substation was delivered in record time, 9 months, to solve the problem of reliability of the electric network in Espírito Santo, south eastern State in Brazil, which suffered constant blackouts. The energization took place in December, 2005.

Ongoing projects

Abreu & Lima: contract to supply HV equipment (disconnectors, circuit breakers, instrument transformers, surge arresters and capacitor voltage transformers) for a 230/69kV substation, one GIS 72,5kV with 15 bays and 4 GCBs, including supervisory, protection and control systems, teleprotection, erection management, commissioning and training.

Belo Monte: contract for a package of one 550 kV gas-insulated substations (GIS), including 24 bays, and six 550 kV – 679 MVA three-phase step–up power transformers. Scope of supply includes equipment, monitoring systems and installation services.

Bom Despacho III e São Gotardo 2: contract with Energy Company of Minas Gerais (Cemig) to provide systems to enhance power transmission in the Bom Despacho III and São Gotardo 2 substations. For the Bom Despacho substation project, Alstom will supply a Static VAR Compensator (SVC) with a power rating of -200/300 MVAR, as well as network
connection equipment with nominal voltage of 500 kV. For the São Gotardo Substation, the scope of equipment supply includes a shunt capacitor bank connected to the 345 kV network, with a nominal power of 150 MVar, and the network connection equipment.

**CHESF:** delivery of a system of the future transmission of telecommunications data, the Optical Transport Network (OTN), for most of the CHESF network: 42 substations and three regional operations centers covering the Brazilian northeast.

**Itatiba:** supply of 500kV - 800 MVA substations for Transenergia Sao Paulo. It was created a consortium for project execution.

**Light:** the project will be supplied through two separated contracts with two different companies of the Light group: Light Energia - Supply of the Main generation control Center, including supervises and control through an e-terrascada 8 hydro power plants. Light SESA - Supply of the Main and Back up Energy subtransmission & distribution, including two redundant e-terrascada & e-terra/transmission system to supervise and control the energy network. The contract is planned to be accomplished within 18 months, with a warranty period of 24 months and an emergency support service for additional 4 years.

**Madeira River:** contract for a double pole of High Voltage Direct Current (HVDC) of 600 kV of IEMadeira for the longest transmission line in the world, with a total length of 2,386 kilometres. This contract was signed on September 28, 2009. Alstom Grid will supply the equipment for converting / inverting stations located in Porto Velho (RO) and Araraquara (SP). Most of the supplies will be manufactured in Brazil.

**Parnaíba Thermoelectric Power Plant** phases 1 and 2: turnkey contract signed with Duro Felguera, to supply two 500kV substations with 2+3 power transformers of 208MVA to connect the thermal power plant from MPX to the grid.

**Santo Antônio:** contract to supply the electrical auxiliary services for Santo Antonio power plant, the supply of 24 GCB's (generators circuit breakers) and 9 power transformers of 330MVA - 500kV.

**Suape:** contract for the supply of two substations for Chesf. The substations are Suape II and Suape III, respectively of 500/230kV – 600MVA and 230/69kV – 200MVA. The contract was signed on March 27, 2009, and the field service started on May 5, 2010.

### Rail Transport – References and Ongoing Projects

Alstom manages in Brazil complete projects on rail transport, including rolling stock, signaling, infrastructure and maintenance services. It is a world reference in tramways, metros, suburban trains, and very high speed trains. In the country, has a tradition with rolling stock plants and signaling and employs over 1200 people.

#### Passenger Transport

**CMSP (São Paulo Metro):** For Lines 1, 2 and 3 supply of 66 Automatic Train Control (ATCs) and Communication-based Train Control (CBTC) Driverless System for lines. For Line 5, supply of the main ventilation system for the stations and tunnels of the new stretch. For Line 2, supply of 96 cars (16 trains), power, signaling and auxiliary systems. For Line 4 providing the infrastructure and auxiliary power system. Lines 1 and 3, maintaining of 47 trains.

**CPTM (São Paulo):** supply of signaling systems, internal equipment and operational control centre, 20 new trains, maintenance of about 120 trains and refurbishment of 266 traction motors.

**METROREC (Recife):** Control and signalling system.

**Porto Maravilha (Rio de Janeiro):** supply of a VLT system without catenary composed by 32 Citadis compositions, power supply, signaling and telecommunications systems.

**Rio de Janeiro Metro:** supply of the signalling and Control Center.

**Supervia (Rio de Janeiro):** Partnership for the construction of an assembly plant of trains in Deodoro, the West Zone of Rio de Janeiro, and supply of 10 new trains.

**Trensurb (Porto Alegre):** supply of 15 metro trainsets for Empresa de Trens Urbanos (Trensurb).
Alstom in Brazil

60 years of contribution to Brazil

International project

Chennai (India): Supply of 9 trains to Chennai Metro Rail Limited, transfer of technology and knowledge to new unit of Alstom India that will produce the other 33 trains of the contract.

Metrovías (Buenos Aires): supply of 36 trains and signalling.


SBASE (Argentina): Supply of 20 Metropolis trains for line H of Subterráneos de Buenos Aires and modernization of 48 cars for line D.

Santiago Metro (Chile): supply of 277 metro cars.

PRASA (South Africa): Supply of 600 passenger trains and the first 20 will be manufactured at Lapa unit.

Freight transport

Vale: supply of:

- Two new Operational Control Centers for EFVM (Vitória-Minas Railroad) and Central Atlantic Railroad (FCA), 280 internal equipment and identification system load;
- Signaling system for EFC (Carajás Railroad) with Communication-Based Train Control (CBTC) technology.
- 179 pieces of onboard equipment for EFC’s fleet and 23 Automatic Train Control (ATCs).

History

1955: Mecânia Pesada is founded
1975: Alstom is part of Itaipu History, when it supplied the first equipment for one of the world's largest hydroelectric plant in power generation
1985: GEC ALSTHOM Group starts its activities in Brazil, by acquiring Mecânia Pesada S.A.
1986: Acquisition of SPRECHER & SCHUH
1989: The companies MASA and Balteau are incorporated in Brazil.
1995: Start of activities in the rail signalling sector with the purchase of 60% of the shares of CMW Equipamentos S.A. The remaining 40% are bought in March 1997.
1996: Acquisition of AEG T&D
1997: Alstom buys the activities and contracts of the state company Mafersa and starts the local production of trains.
1999: Acquisition of ER Equipamentos Elétricos
1999: ALSTOM decides to purchase 50% of the Generation segment of ABB, creating company ABB ALSTOM Power S.A.
2000: Acquisition of Ansaldo Coemsa S.A. in Canoas (RS) to expand both the Transmission & Distribution and Power sectors.
2004: Alstom sells its Transmission and Distribution activities to Areva.

The site of Information Solutions wins the Revista Ferroviária award as best company in Brazil in the field of information technology creation.

2005: In July, Alstom celebrated 50 years of operations in Brazil.
2007: To integrate the Power and Transport sectors, Alstom opens its new business complex in September on the Bandeirantes site.
2008: Alstom wins the contract to supply equipment for hydro power plants on the Madeira River. Bulb turbines of the type provided for Santo Antonio and Jirau projects will be the most powerful ever produced by the Group in Brazil.

Alstom wins a major signalling contract in São Paulo. The project foresees the supply of an automatic driverless system for lines 1, 2 and 3 of the São Paulo Metro.

Alstom Brazil, March 2015
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2009: Alstom signs contract to supply the first modern tramway in Latin America for Brasília
   Alstom and Schneider Electric propose acquiring Areva T&D
   Alstom wins the contract for a 600kV High Voltage Direct Current (HVDC) bipole from IEMadeira for the world’s longest power transmission line, with a total length of 2,375 kilometres.

2010: Alstom and Bardella inaugurate a common hydro facility in the Amazonian region
   Alstom wins first contract in the Brazilian wind market
   Alstom acquires the transmission business of Areva T&D which forms the new Alstom Grid sector

2011: Alstom signs contract to provide power equipment for the Belo Monte Dam, the world’s third-largest hydroelectric power plant with a planned capacity of 11,230 MW.
   Alstom inaugurates the first wind plant of the company in Brazil and Latin America (the 8th site of Alstom in Brazil)

2012: Alstom launches the cornerstone of its first Global Technology Centre in Latin America (Taubaté – SP) announces its second wind plant in Brazil (Canoas - RS) and its second rail transport unit in a partnership with SuperVia (Rio de Janeiro - RJ).

2013: signature of a memorandum of understanding with Renova Energia, leader in wind power generation in Brazil, to supply, operate and maintain in Brazil around 440 onshore wind turbines for a total amount exceeding €1 billion.
   Acquisition of Engeman Serviços e Manutenção, a regional reference in medium and high voltage electrical services.
   Inauguration of the second wind plant in Brazil, Canoas (RS), dedicated to the production of towers for wind turbines.

2014: acquisition of a Brazilian company Reason Tecnologia S.A. - a Florianópolis-based provider of measurement and substation automation network products for transmission and distribution (T&D) customers.
   Inauguration of the first Global Technology Center in Latin America.
   The Board of Directors has unanimously decided to issue a positive recommendation of the offer from GE to acquire, the Thermal and Renewable Power and Grid Sectors.
   Announcement of a joint venture (TEN – Torres Eólicas do Nordeste) with Andrade Gutierrez to build a factory in Bahia State to produce steel towers for wind turbines.

2015: Inauguration of Torres Eólicas do Nordeste (TEN).
   Inauguration of the first tramway manufacturing line in Latin America, in Taubaté, São Paulo State.

Partnerships

Alstom and Bardella Joint Venture: Indústria Metalúrgica e Mecânica da Amazônia – IMMA (Rondônia - Porto Velho)

IMMA – Indústria Metalúrgica e Mecânica da Amazônia, is a joint venture formed by Alstom, the world leader in power generation and transport, and Bardella, a leading provider of equipment for the industries of metallurgy, energy, oil and gas. With an investment of R$ 90 million (€35 million), the factory in Porto Velho, the capital of the State of Rondônia, is the first capital goods industry in the Amazon Region and is responsible for the production of hydro mechanical and lifting equipment of regional plants, such as Santo Antônio, in Madeira River. Moreover, due to its location at 17 km from BR-364 Highway, the new factory will also support other hydropower projects in northern Brazil, and the plants that the country will build in Peru and possible projects in Bolivia, Ecuador and Central America. The plant has 253 thousand square meters of total area and 33 thousand square meters of built area. It is equipped with machine tools, cutting area, boiler and welding, machining, mechanical assembly, jet blasting and painting. Its lifting capacity is of 130 tons and a production of 12 thousand tons a year.

Global Technology Centre

Alstom Global Technology Centre for Latin America (Taubaté/São Paulo)

Inaugurated in May 2014, the Global Technology Centre of Taubaté is Alstom’s first one in Latin America and the sixth in the world. With an investment of €8 million euros, the GTC counts on 15 employees dedicated to the research and development of hydropower projects, focused on Kaplan plants, ideal for low-head hydro projects (up to 55 meters). The GTC in Taubaté has the complete hydro product technical expertise (turbines, generators, governors, command and control, hydro mechanical and lifting equipment) and will have the challenge of providing new technologies and solutions to meet the needs of Brazil and the world.
Alstom in Brazil

60 years of contribution to Brazil

Corporate Social Responsibility

*Environment, education and culture: the pillars of a sustainable attitude*

**ENVIRONMENT:** Supported by Alstom Foundation

**Atlantic Forest Restoration**
A project turned to the recovery of ecological corridors of the Atlantic Forest in the states of Rio de Janeiro and São Paulo. It also promotes the strengthening of the Pact for the Restoration of the Atlantic Forest, a network of agencies and companies for the preservation of this important Brazilian biome, whose goal is to recover 15 million hectares by 2050. Year: from 2009 to 2013. Partner: Conservation International.

**Alternative sewage treatment system**
Project to make feasible the construction of sewage treatment systems at Vale do Paraíba region, state of São Paulo, from alternative and low-cost technology. Since today the project is still delivering ecological biodigesters to the community of Taubaté and its surrounding areas. Year: 2009. Partners: University of Taubaté (UNITAU), Rotary Club Taubaté Jacques Felix and local governments of Taubaté and Redenção da Serra.

**Deputado Augusto do Amaral Eco-School**
Dedicated to environmental education, the project turned a public school in the city of São Paulo into a sustainable school model. The work included several activities, such as: hands-on workshops for intervention at the school’s installations and theoretical classes turned to environmental themes. Year: 2009 and 2010.

**EDUCATION FOR WORK:** Financed with local resources

**Pescar Project**
The Pescar Project is an initiative that aims to qualify youth in situation of social vulnerability for the first job. It also counts on the important contribution of employees who, as volunteers, collaborate with several activities for the students along the course. At Alstom, the project have already qualified 242 youngsters, with an average inclusion on the labour market above 80%. Year: from 2004 to 2013 (Canoas) / from 2008 to 2014 (Itajubá). Partner: Projeto Pescar Foundation.

**Formare School**
Installed at Taubaté (SP) unit, the Formare School offers professional qualification courses for youngsters between 16 and 18 years of age from neighbouring communities. The work is conducted with the support of a group of voluntary employees who contribute for the coordination of the project and the conduction of theoretical and practical classes. In seven years, the school has already qualified 139 people, 35 of them hired by Alstom and the other by local companies. Year: since 2008. Partner: Ioschpe Foundation

**Guaporé Project**
Conceived by IMMA, a joint venture between Alstom and Bardella, to offer people from the region of Porto Velho (RO), for free, an opportunity to qualify for new professions in the metallurgy industrial market. In five years, the project qualified 885 participants as boiler operators, welders, painting operators, machine tools and blasting machine operators. Of these, 473 people were hired by IMMA. Year: from 2008 to 2012. Partner: SENAI/Rondônia.

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Guaporé Special

Guaporé Special is part of Guaporé Project. Since November 2012, the Guaporé project has expanded to include a special course for people with disabilities. The training includes lessons on areas such as Planning, Marketing, Management, Quality Management and also has moments of interaction between students and professionals from different areas of IMMA. Year: since 2012. Partner: SENAI/Rondônia.

Presidente Tancredo Neves Rural Family House (BA)

Project conducted by Odebrecht Foundation and supported by tax incentive from the Fund for Children and Adolescents (FIA).

The Rural Family House offers professional qualification to youngsters from the rural area of southern Bahia, stimulating them to continue to work on family agriculture. The project has already qualified 116 people, and 136 are currently being qualified. Year: 2012.

Trilhando Caminhos

Project supported by tax incentive from the Fund for Children and Adolescents (FIA).

The Trilhando Caminhos project promotes social and educational actions for teenagers from the municipality of Tancredo Neves, in southern Bahia, offering participants personal, social and professional education in an integrated way. The initiative is part of the Tributo ao Futuro program, by Odebrecht Foundation. Year: 2011.

CULTURE: Supported through the tax incentive of Rouanet Law (clause 18)*

Na Trilha da Energia

Sponsoring of the “Na Trilha da Energia” documentary series, turned to the theme of electric power in Brazil. The five episodes, in roadmovie format, compose the itinerary of the long trip of Luciano Gatti, who crosses the country to present power generation, transmission and distribution processes. Along the way, he answers questions of the population on the theme and interacts with people linked to each of the steps. Directed and written by Malu Tavares and Larissa Prado, the show is produced by Canal Azul and will be aired by Cultura TV, in 26-minute episodes.

Brazilian Symphony Orchestra - OSB

For two years, Alstom supported the Brazilian Symphony Orchestra in the conduction of the Safira and Ônix series, with presentations at Sala São Paulo and the Municipal Theater of Rio de Janeiro. OSB became a pioneer in the national music scene for the being the first one to do tour, outdoor presentations, educational concerts and international shows. Year: 2010 and 2012.

Ophélie Gaillard et Pulcinella

Sponsoring of the Baroque music concert series, with renowned French-Swiss violoncellist Ophélie Gaillard and French group Pulcinella in several Brazilian cities. The project was promoted by Aliança Francesa and the Ministry of Culture. Year: 2012.

Academia Jovem Concertante

Sponsoring of the first tour of Academia Jovem Concertante for seven Brazilian cities. The project, conceived by pianist Simone Leitão, is made up of 21 youngsters between 16 and 26 years old, coming from music schools and social inclusion projects. It gives young musicians the opportunity to develop their musical career through the experience in an orchestra. Year: 2012.

Itajubense Culture and Art Festival

Alstom Brazil, March 2015
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Sponsoring of the second edition of the Itajubense Culture and Art Festival (FICA), in Itajubá (MG). The event, held by the Federal University of Itajubá (UNIFEI), has the participation of artists from the region and other places of Brazil in music, theater, dance and artistic performances and workshops. Year: 2012.

O trem, o vagão e a moça de luvas
Sponsoring of the play “O trem, o vagão e a moça de luvas”, showing in São Paulo. Directed by Renato Rocha and written by Xico Abreu, staged by actors Flávia Pyramo and Babu Santana, who tell the story of lonely Ana and weird Ernesto, who embark on the same train car. Year: 2012.

Alternative Power Documentary
Sponsoring for the conduction of Brazilian documentary Alternative Power, made by producer Canal Azul. Directed by Pierre-Olivier François and Lygia Barbosa, it focuses on the production of ethanol fuel in Brazil since the 70s. Year: 2012.

Los Angeles Brazilian Film Festival (LABRFF)
Sponsoring of the Brazilian film festival in Los Angeles, California (USA). Created in 2007, LABRFF was the first event dedicated to national films on the United States west coast, and dedicates to showing national movies, as well as to the development of relations between Brazilian producers and members of the US movie industry. Year: 2012.

Filhos do Vento Project
Sponsoring of the production of the iconographic survey of the daily life of the Brotas de Macaúbas community, at Chapada Diamantina, municipality chosen for the installation, by Desenvix, of the first wind farm of the state of Bahia. The results were recorded on book “Filhos do Vento”, with 90 black-and-white photos made by photographer Fabio Cabral, and a digigravure catalogue by plastic artist Beth Kok. Year: 2011.

Rio Folle Journée
Created by René Martin in 1995, the Folle Journée classical music festival debuted in the French city of Nantes and is considered one of the most important in Europe. It features short concerts with tickets at accessible prices. It takes place annually in its home town and also in Bilbao (Spain), Tokyo (Japan), Lisbon (Portugal) and, since 2007, in Rio de Janeiro, where it is called Rio Folle Journée. Year: 2007 to 2010.

Dr. Plástico
Sponsoring of presentations of play “Dr. Plástico: Batucando com os Polímeros” for middle school students from the public network of the State of São Paulo. On the play, produced by Cia. Tugudum, children find out the importance of recycling and reusing plastic in a fun way, through music and theater. In all, eleven schools participate in the project, totaling over 4,500 viewers. Year: 2009.

*The Federal Law of Culture Incentive (Law No. 8.313, of December 23, 1991), also known as Rouanet Law, is an incentive law to companies and individuals interested in financing cultural projects. Among other benefits, it allows for income tax deductions of up to 100% of the sum invested in projects.

Awards and Certification

AWARDS

Main Foreign Trade Export Company 2005 - In November 2005, Alstom Brazil was awarded by the Development and Foreign Trade Ministry with the title of "Main Foreign Trade Export Company".

Alstom Brazil, March 2015
lam-communication@alstom.com
Alstom in Brazil

60 years of contribution to Brazil

Revista Ferroviária award - Alstom has been awarded several times by Revista Ferroviária (main trade magazine in rail transport market)
2014: Best Passenger Industry
2010-2012: Best Passenger Industry
2008 and 2009: Best Industry
2004 and 2006: Best Technology Creator
2004 - Best Technology Creator
1998 and 2002 - Best Industry

CERTIFICATION

Água Branca Plant
ISO 9001 (International Organization for Standardization) - Quality Management.
ISO 14001 (International Organization for Standardization) - Environmental Management.
OHSAS 18000 - Occupational Health and Safety Management.

TIS Plant - Bandeirantes
Certified by ISO 9001 (International Organization for Standardization):2008
Certified CMMI (Capability Maturity Model Integrated) level 2

Camaçari Plant
ISO14001 Certification in July 2013;

Canoas Plant
ISO 9001 (International Organization for Standardization) - Quality Management.
ISO 14001 (International Organization for Standardization) - Environmental Management.
OHSAS 18000 - Occupational Health and Safety Management.

Itajubá Plant
ISO 9001 (International Organization for Standardization) - Quality Management.
ISO 14001 (International Organization for Standardization) - Environmental Management.
OHSAS 18000 - Occupational Health and Safety Management.

Lapa Plant
Certified by IRIS (International Railway Industry Standard)

Taubaté Plant