Alstom in Thailand
40 years of contribution to transport and energy infrastructures

Alstom’s Presence

Key Data:
- 80 employees
- Headquarters located in Bangkok, capital of The Kingdom of Thailand includes:
  - Corporate | Power + Thermal Services | Transport | Grid
- 2 site offices | O&M site at Bang Bo, Samutprakan Province | Transport site in Bangkok

Alstom in Thailand, March 2015
History

1973: Established of Alstom (Thailand) Ltd.
1975: Supplied 113 diesel locomotives to State Railway of Thailand
1980: Supplied more than 7000 MW (gas, steam & hydro)
1992: Recorded the first Combined Cycle Project in Thailand, Rayong CCPP
2000: Full operation and maintenance contract for Bang Bo CCPP
2001: Awarded for the ventilation tunnel and trackworks Bangkok Blue Line of Mass Rapid Transit Authority
2004: Built the largest Combined Cycle Project with 4 GT26 in Thailand, Kaeng Khoi CCPP
2010: Acquisition of Areva T&D’s Transmission business, the third sector of Alstom, renamed Alstom Grid
2012: Awarded for the trackworks Bangkok Blue Line of Mass Rapid Transit Authority
2013: Awarded for the 850 MW CCPP EGAT North Bangkok Block 2
2013: Extension of 10-year full operation and maintenance contract for Bang Bo CCPP
2013: Awarded for the trackworks Bangkok Green Line of Mass Rapid Transit Authority
2014: Awarded for EGAT 500kV GIS full turnkey Udon Thani 3 Substation
2014: Awarded for EGAT Mae Moh Power Plant Units 4-7 Replacement

Corporate Social Responsibility

ALSTOM FOUNDATION FOR THE ENVIRONMENT

Trees for Thailand

To help reduce the severity of side effects caused by deforestation, Alstom Thailand together with The Rajapruek Institute Foundation (RIF) has pledged to plant 100,000 trees at Amphur Tha Pla, Uttaradit Province, over a period of 18 months. The partnership was officiated with a contract signing ceremony on 10th June 2010 at Alstom office. The project concluded in 2012.

Towards a Zero Waste Community Concept in Thailand

Due to the growth of economy and consumptions, amounts of solid waste has increased. The project aims to support and recognise those Zero Waste Communities’ activities. Alstom Thailand together with the partner, representatives from Thailand Institute of Packaging and Recycling Management for Sustainable Environment (TIPMSE), The Federation of Thai Industries, had made several visits and initiated activities in order to encourage the raising awareness to the Communities. The projects concluded in 2014
Alstom Thermal Power sector – main activity in equipment & services for power generation - has supplied more than 7000 MW (gas, steam & hydro) since 1980. It has also expanded its activities in the renewable energy market with 2x40 MW biomass power plant at Phu Khiow and Dang Chang, and hydro mechanical equipment for a 600 MW hydro plant in Laos. The significant reference in 2005 was a 1500 MW combined cycle plant commissioned in 2008 at Kaeng Khoi, Saraburi using F-class GT technology. In 2013 the remarkable references were the 850 MW combined cycle power plant North Bangkok Block 2 for Electricity Generating Authority of Thailand (EGAT) and the signing with Eastern Power and Electric (EPEC) for 10-year service and upgrade of the 350 MW combined cycle plant in Bang Bo, Samutprakarn. In 2014 currently won EGAT Mae Moh Power Plant Units 4-7 Replacement Project. Area of activities covers Thailand, Laos, Cambodia and Myanmar.

References

1992: Rayong 300 MW First Combined Cycle Power Plant
1996: Map Ta Phut 150 MW Combined Cycle Power Plant
1998: Glow SPP1 68 MW Cogeneration
1998: Amata Power 2 110 MW Cogeneration
2000: Bo Win 365 MW Combined Cycle Power Plant
2000: Bang Bo 350 MW Combined Cycle Power Plant
2003: Phu Khiow Biomass 40 MW
2003: Dan Chang Biomass 40 MW
2004: Lam Ta Khong Pumped Storage 2x250 MW
2005: Kaeng Khoi 2 760 MW Combined Cycle Power Plant
2006: NPC and Thai Oil BOP & Heat Recovery Steam Generator
2010: Nam Ngum 2 (Laos) Hydro Mechanical Equipment Supply
2013: EGAT North Bangkok Block2 850 MW Combined Cycle Power Plant
2013: Renewal of a 10-year O&M Contract for Bang Bo 350 MW Combined Cycle Power Plant
2014: Awarded for Long Term Services Agreement (LTSA) turnkey maintenance for 2xGT26 EGAT North Bangkok CCPP Block2
2013: Awarded for EGAT Mae Moh Power Plant Units 4-7 Replacement
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Transport

Alstom Transport sector – key activities in equipment & services for rail transport - the main supplier to State Railway of Thailand (SRT) during 1973 - 1985, has supplied more than 113 locomotives, which represented 40% of SRT fleet. In 2001, Alstom entered the urban market with trackworks for the underground Blue Line in Bangkok to Mass Rapid Transit Authority (MRTA). In 2012, awarded for the trackworks contract of Blue Line Extension, and the trackworks for underground Green Line in 2013.

References

1975 - 1985: SRT Supply of 113 diesel locomotives
1992: SRT Supply of relay IXL and light signaling for double tracking on northern section (Lopburi - Phitsanulok) and southern section (Ratchaburi – Chumporn)
2001: MRTA Ventilation and Trackworks for Blue Line
2012: MRTA Trackworks for Blue Line Extension: Bang Sue -Tha Phra Section and Hua Lamphong – Bangkhae Section
2013: MRTA Trackworks for Green Line: Bearing – Samutprakan Section

Grid

Alstom Grid sector - main activity in equipment & services for power transmission - has its origins dating back over 30 years with major achievements in GIS and AIS substations and turnkeys up to 500kV. Recently Grid succeeded in supplying HV transformer from China to Thai market, and positioned itself as a supplier of SCADA/EMS/DMS System with project references in utilities i.e. EGAT and MEA. Area of activities covering Thailand, Laos, Cambodia and Myanmar

References:

1993: PEA Pattaya Tai, Rangsit Tai 115/22kV, The First GIS Turnkey Substations in Thailand
1994: PEA Om Yai 115/22kV GIS Turnkey Substation in Thailand
1995: PEA Trang & Pattani 115/33kV Turnkey Substation
1997: PEA V-Shape Projects 115/22kV Substations
2000: MEA Chidlom & Jangwattana SCADA/ EMS System Control Centers
2001: MEA 230/115kV Vibhavadi Terminal Station
2001: GLOW Bo Win 2X365 MW CCPP, 230kV Switchyard
2001: EPEC Bang Bo 350 MW CCPP, 230kV Switchyard
2002: RID Prasae 115/22kV Turnkey Substation
2004: MEA Distribution Management System (DMS)
2005: EGAT Energy Management System (EMS)
2007: EGAT Latprao 230kV GIS Substation
2008: EGAT On-Nuch 500kV GIS Substation
2008: EGAT On-Nuch 500kV Power Transformer from China
2009: EGAT Navanakorn 220kV GIS Substation
2010: GLOW 200kV GIS ESY GHECO-ONE PP
2010: EGAT Samphran(1) 230kV GIS Extension
2011: EGAT EMS Upgrade
2011: NAM NGUM 2 & 3 (Laos), Loose Products & Supervision
2012: GLOW MTP(1) 115kV GIS B65 Extension
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2012: GLOW SPP 2&3 Maintenance 230KV GIS T105
2012: MEA SCADA/ EMS System Software Consulting
2012: MEA 230/69kV Vibhavadi Terminal Station Extension, Loose Products & Supervision
2013: EGAT Nan(2) 8x500kV 110 MVR Three Phases Shunt Reactors
2013: EGAT North Bangkok Block 2 CCPP, 230kV GIS Switchyard Turnkey Substation
2013: PEA Lamlukka & Samutsakorn 115kV GIS Substation Loose Products
2013: GULF 2x 800 MW Gulf JP IPP CCPP, 500kV Switchyard Turnkey Substations
2014: EGAT 500/230kV GIS Udon-Thani 3 Turnkey Substation

EGAT  Electricity Generating Authority of Thailand
MEA  Metropolitan Electricity Authority
PEA  Provincial Electricity Authority
RID  Royal Irrigation Department

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