Alstom in Malaysia

References and Ongoing Projects

Alstom’s Presence

Key Data:
- ALSTOM Asia Pacific Sdn. Bhd.
- ALSTOM Services Sdn. Bhd.
- ALSTOM Renewable Malaysia Sdn. Bhd.
- 6 Power sites
- >800 employees

Note:
Grid team integrated into HQ location (Chulan Tower) in 2010, and in 2013 Alstom Grid Malaysia sets-up branch office in Kuching (Sarawak).

History

1969: Supplied 3 x 30 MW steam turbine & generator for the Sultan Ismail Power Station, Johor Bahru
1983: Establishment of ALSTOM Export Sdn Bhd (Now known as Alstom Services Sdn Bhd)
1984: EPC for the first Combined Cycle Power Plant by Alstom, the 3 x 300 MW CCP blocks at Paka, the largest in SEA
References and Ongoing Projects

1991: Supplied the first Hydro Turbines to Malaysia for the 4 x 150 MW Hydro Plant at Pergau
1992: Establishment of ALSTOM Asia Pacific Sdn Bhd to undertake Power Plant EPC & Operation/Maintenance scope in the region
1993: The first IPP for Alstom in Malaysia as EPC for the 670 MW CCPP, Kuala Langat IPP
1994: EPC for the 1300 MW CCPP Lumut IPP that contains the largest number of GT13E2 (6nos) on one site. Eventually added 3more GT13E2 for total of 2000MW in 2000.
1999: EPC for the first and the then largest clean coal plant in Malaysia, the 2100 MW coal fired plant at Manjung. Established Customer Service NEA/SEA Regional HQ in Malaysia.
2000: Received Operational Headquarters status (OHQ) from the Malaysian Government
2001: Established the Field Service Regional Unit in Malaysia
2003: Order for 4x300 MW hydro electro mechanical package to Bakun, the then largest hydro plant in SEA
2002: Conducted the Kuala Langat (fleet leader for M technology) GT upgrade with the first M version and subsequently MXL of the GT13E2 in Alstom
2005: Established the GPS ROA office in Malaysia
2006: ALSTOM Hydro Sdn Bhd was established
2007: Established the Thermal Services ROA HQ office in Malaysia.
2009: Alstom Malaysia became the P&L hub for Gas Turbine Combined Cycle EPC business for the region
2009: Established the Regional PAC office, Regional Audit, regional ITSSC and GTCC Hub in Malaysia
2010: Established Alstom Grid in Malaysia
2012: Established Thermal Services Gas Turbine Execution Centre KL for Asia Pacific (one of Alstom’s 5 global GTECs for CCPP after sales services and operation & maintenance).
2012: Established Renewable Steam Plants EPC office for East Asia & Oceania in Malaysia.
2013: Opened an Alstom Grid Malaysia branch office in Kuching, Sarawak.

Corporate Social Responsibility

2009-2013: Alstom Foundation: Rainforest to Reef Programme (R2R) + 2 year extension.
Reef Check Malaysia is part of the Reef Check Foundation, an international non-profit organization, dedicated to conservation of coral reefs. Reef Check Malaysia, upon the request of the Marine Parks Department, developed an outreach programme for the Marine Park Island schools to educate and increase the awareness of coral reef conservation on three islands, Tioman, Redang and Perhentian. Alstom’s participation included funding and manpower for the implementation of the programme on three Marine Park Island schools from 2009 to 2011. Under the programme, more than 250 Alstom employees volunteered and contributed to R2R activities for around 1,300 school children on the said islands.
Alstom Foundation awarded a 2-year extension to continue R2R programme which now includes Pangkor Island schools in West Malaysia too. 12 Supporting Activities (SA) and 6 Coral Reef Camps (CRC), each with around 40 schoolchildren of 10 to 11 year-old, were conducted during the R2R extension programme. A new activity, the KL City Eco-Programme was also conducted in 4 selected Klang Valley schools in 2012 and 2013 respectively, in conjunction with World Environmental Week.

2013-2014: Sustainable Waterfall Adoption Programme
Alstom Foundation awarded the second CSR programme, Sustainable Waterfall Adoption Programme (SWAP) to NGO Pertubuhan Pencinta Air Terjun Selangor (PPATS) in support of their efforts to raise environmental public awareness on nature preservation and respect for the environment. Lauched in January 2013, SWAP will engage school children in schools/colleges in “Save the Waterfall” activities (cleaning-up) in Sg. Liam Waterfall, Hulu Selangor and “We can make a difference” campaign (workshops) in the vicinity of Hulu Selangor.

Empowering employees with CSR
All Alstom employees have the option to donate incentives received for employee referrals to pre-determined non-governmental organizations (NGOs).
Supporting future Malaysian talents

Externally: 6 interns underwent 1-year training during 2013-2014 period (Financial Year) under Alstom Malaysia’s Graduate Trainee Programme. Additionally, more than 32 undergraduates from selected local universities have also undergone their 3-months practical training (a conditional requirement from most Universities and institutions of higher learning) with Alstom Malaysia since 2012.

Internally: Employee’s Children Achievement Award is designed to encourage and accord recognition to employees’ children who have excelled in their studies in Malaysian Government public examinations at primary (Standard 5), secondary (Form 5) and pre-university (Form 6 or A-Levels). Recipients of this Award must meet specified criteria for respective category.

Awards and Certification

Power:
- ISO 9001, OSHAS 18001 and ISO 14001 certification by LRQA (Lloyd’s Registered Quality Assurance) for designing and providing project management for construction and for operation and maintenance, after-sales services and retrofitting services for power plants under Alstom Thermal Power’s global certification.
- PAC’s integration and testing facility at PKFZ awarded ISO 9001:2008 certification by LRQA (Lloyd’s Register Quality Assurance).

Transport:
- Technology Business Review Award for Excellence in Logistics for Rail Technology (2007)

Thermal & Renewable Power

Alstom has been a key player in the Malaysian economy with prominent presence and capabilities, serving the region. Alstom’s business entity in Malaysia, ALSTOM Asia Pacific Sdn. Bhd was set up in early June 1992 in Kuala Lumpur as the regional centre for Power Plant Engineering and Support. It was formed to ensure Alstom’s power generation products, engineering and services were readily accessible to all power plant owners and developers in the Asia Pacific region.

Today, the organization, which includes ALSTOM Services Sdn Bhd (formerly known as ALSTOM Export Sdn Bhd) and ALSTOM Renewable Malaysia Sdn Bhd has grown to around 800 staff, mainly professionals who specialise in various highly technical fields of power plant turnkey and services solutions.

Amongst the activities that are carried out from the Malaysian hub are, Sales & Tendering, Engineering & Procurement, Project Management, Erection Supervision & Commissioning, Power Automation & Control, Service, Operation & Maintenance.

Alstom’s focus is in supplying local and regional customers with cost effective solutions as well as finding optimum solutions that conform to Alstom’s high quality standards.

References:

Malaysia
- Sultan Ismail Power Station 90 MW Steam Turbine & Generator
- Tuanku Jaafar Power Station 360 MW Steam Turbine & Generator
- Paka 954 MW Combined Cycle Power Plant
- Paka 180 MW Open Cycle Power Plant
- Pasir Gudang 180 MW Open Cycle Power Plant
- Connaught Bridge 516 MW Open Cycle Power Plant
## Alstom in Malaysia

### References and Ongoing Projects

- Pergau Hydro Plant 600 MW Generators
- Kuala Langat 670 MW Combined Cycle
- Lumut 1,300 MW Combined Cycle
- Manjung 2,100 MW Coal-Fired Plant for TNB Janamanjung
- Lumut GB3 650 MW Combined Cycle for Malakoff
- Perlis 650 MW Combined Cycle for TTPC
- Bakun Hydro Electro Mechanical package 4 x 300 MW for Sarawak Hidro (2003)
- Tanjung Bin 3 x 700 MW, FGD and Electro Static Precipitators (ESP) (equipment only) for Malakoff (2004)
- Jimah 2 x 700 MW, FGD and ESP for Jimah Power Generation (2005)

### Projects executed from Malaysia:

#### Indonesia
- Sengkang 137MW Combined Cycle Power Plant (1998)
- Indonesia, Muara Tawar 5 260MW Combined Cycle Power Plant (2010)

#### Singapore
- Senoko Repowering 3x360 MW for Power Senoko (Phase 1, 2001; Phase 2, 2004)

#### Thailand
- IP Cogen 150 MW Combined Cycle for Industrial Power Company (1997)
- Bowin 700 MW Combined Cycle for H-Power (2001)
- Kaeng Khoi 2 1520 MW Combined Cycle Power Plant (2005)

#### Vietnam
- Phu My 2 300 MW Open Cycle for Electricity of Vietnam (1997)
- Phu My 2.1 extension add on 160 MW (2005)

#### Australia & New Zealand
- Collie Power Station 300MW Steam Power Plant (1999)
- Swanbank 400 MW Combined Cycle for CS Energy (2001)
- Tallawara 400MW Combined Cycle Power Plant (2009)
- Colongra 680MW Open Cycle Power Plant (2009)

### Ongoing Projects:
- Thailand, 850 MW North Bangkok 2 Combined Cycle Power Plant for EGAT (2013)
- Malaysia, Manjung 1000 MW Coal Fired Plant for TNB Janamanjung (2011)
Alstom in Malaysia

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- Malaysia, Hulu Terengganu 2 x 125 MW Electro Mechanical Package for TNB (2010)
- Malaysia, Kuala Langat 720 MW CCPP Operation Support & Maintenance (effective April 2014)
- Malaysia, Perlis CCPP 650 MW Operation & Maintenance
- Malaysia, Lumut CCPP 1,300 MW & GB3 CCPP 650 MW Long Term Parts & Reconditioning Agreement
- Singapore, Banyan 800 MW Gas Fired Combined Cycle Power Plant for Sembcorp (2011)

Transport

In the rail sector, Alstom has provided key rail transport equipment and services to the main rail operator in Peninsular Malaysia, Keratapi Tanah Melayu Berhad (KTMB) or Malayan Railways Limited and Rapid KL’s Light Rail Transit (LRT) Star and Putra lines.

References:
- 53 engines for diesel electric locomotives for KTMB (1981)
- Onix drive for Putra LRT 2 in Kuala Lumpur (1994)
- Signalling for Star LRT (phases 1 and 2) in Kuala Lumpur (1994 & 1997)
- Automatic fare collection system for Star LRT (1998)

Grid

Malaysia, with the support from Grid regional office in Singapore, is made up of a team comprising the Sales Function and Automation Business Unit. Transmission activities in Malaysia began since the formation of AEG Corporation (M) Sdn Bhd in 1991. Over the years, Alstom has successfully delivered 275 & 132kV GIS substations, 500, 275 & 132kV AIS substations, 500, 275 & 132kV HV Equipment, Power transformers up to 900MVA, Substation Automation Solutions and Network Management Solutions. In 2013, Grid Malaysia set-up a branch office in Kuching, Sarawak to support the local market's activities.

References:
- PMU Ulu Melaka and PMU Bukit Mertajam – Bulk supply of 145kV switchgears turnkey (1995)
- Tenaga National Berhad – Bulk supply of 45MVA to 90MVA power transformers (1996)
- Petronas CUF – Supply and delivery of 9 x 52MVA power transformers (1997)
- PMU Melaka and PMU Skudai – Rehабilitation of 275kV GIS substations (1999)
- Segari 275kV Substation Block 3 Extension – Turnkey 275kV, 7 bays switchyard (2001)
- Perlis 275/132kV Substation – Turnkey 275kV, 10 bays and 132kV bays switchyard with civil works (2001)
- Jimah Energy Ventures Sdn Bhd - Supply of 275kV switchgears, control relay panels and substation control system (2005)
- Tenaga Nasional Berhad – Lenggeng 500/275kV substation, full turnkey (2005)
- Sabah Electricity Sdn Bhd – Alam Mesra and UMS 132/33kV compact substations (2007)
- PMU Melaka – Maintenance of 275kV GIS substation (2009)
- Sarawak Energy Engineering Sdn Bhd – Supply of 275kV & 132kV circuit breakers and disconnectors for Engkillili / Entinggan /
Alstom in Malaysia

References and Ongoing Projects

Muara Tabuan substations (2009)

- Sarawak Energy Bhd - Lachau 275/33kV Substation - full turnkey including civil works (2011)

Ongoing projects:

- 275kV Tudan Substation Reconstruction (awarded in Dec 2014)

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