

NZGA Plenary Session-Industry Update

Year in review and looking forward

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Industry Director – Thermal & Geothermal

Geothermal and AECOM

35 years multidisciplinary experience starting with NZ Govt. supported projects in Indonesia in 1978.

Export business with Energy teams (NZ, Indonesia and Philippines) led by Engineers educated in New Zealand.

- New Zealand –450 staff / 100 staff on Energy projects / 30% on Geothermal.
- Indonesia – 150 staff / 60 staff on energy projects / 50% on Geothermal.
- Philippines – 150 staff / 10 staff on energy projects /50% on Geothermal.
- Kenya – project offices only including Inter country HVDC links

AECOM's Geothermal Activity 2013

Typical Type of Work

FEED Designers (Indonesia) (2 projects)

Owners Engineers (NZ, Indonesia, Philippines, Hawaii) (4 projects)

SAGS Design (NZ, Indonesia, Kenya, PNG) (8 projects)

Control System Designs & Upgrades (Philippines) (4 projects)

Transmission connections, Protection designs (4 projects)

PS efficiency Improvement projects (NZ, Philippines, PNG) (4 projects)

Civil and Mechanical detailed design & enabling works (2 projects)

Site Supervision (Indonesia) (3 projects)

Environmental permitting (Indonesia , Philippines) (6 projects)

AECOM Typical Geothermal Projects 2013

Contact - Ohaaki Efficiency Improvement Upgrades, Wairakei B station GRS Upgrade.

EDC- Efficiency Upgrades, Indonesian New build EPC Projects OE , Malitbog and Tongonan C&I & protection Upgrades Project Management & Detailed Design, Leyte Control Centre upgrade.

Chevron – Philippines and Indonesia New Ventures - Environmental (3 projects)

Newcrest Mining – Steamfield projects detailed design, Kapit Acceleration project.

Pertamina – Lahendong 5&6 FEEDs , Ulubelu 3&4 FEEDs, OE

Supreme - Muara Laboh - Development early works detailed designs

AECOM Typical Geothermal Projects 2013

OTP- Sorak Malapi - Environmental and Infrastructure enabling

Hyundai – Olkaria I and IV design reviews

New Projects in November

Pertamina - long term contract-Capacity Building for Lumut Balai, Karaha, Lahendong, Sungai Penuh , Hulu Lais, Ulubelu, Kamojang, Kotamobagu

KenGen - Olkaria VI Technical advisors- awarded, contract being finalised

Supreme - Rantu Dedap- Civil Infrastructure Roads and Drill Pads detailed design

2014 Looking forward

Strong Pipeline of opportunities – mostly offshore

Kenya- Various including - GDC - Men-engai 90MWe SAGS detailed designs and 30 MWe Power Station contracts -

Philippines - EDC – Tongonan, Malitbog, Palinpinon C&I&E , New builds, Energy Efficiency, Insurance rebuilds Leyte?

Indonesia - Chevron Steamfield- Base Business, New Ventures detailed designs

Indonesia - Pertamina - FEED's

Indonesia - Supreme - FEED's

Various - Energy Efficiency Upgrades and technology improvement projects

Design Verification - ISO 9001, NZS4801 and pressure parts to ISO 17020

Thank You

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