



NEW ZEALAND
FOREIGN AFFAIRS & TRADE
Aid Programme

THE NEW ZEALAND – AFRICA GEOHERMAL FACILITY

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Outline of Presentation:

- New Zealand's Experience in Geothermal Technology
- New Zealand's Geothermal Aid Programmes
- New Zealand Africa Geothermal Facility

Geothermal Experience & Expertise

- New Zealand expertise in geothermal R&D, drilling, manufacturing, procurement, construction, development.
- 10 GW installed capacity, approx 20% of NZ's electricity supply
- Aid programme focus on utilising NZ's experience and expertise

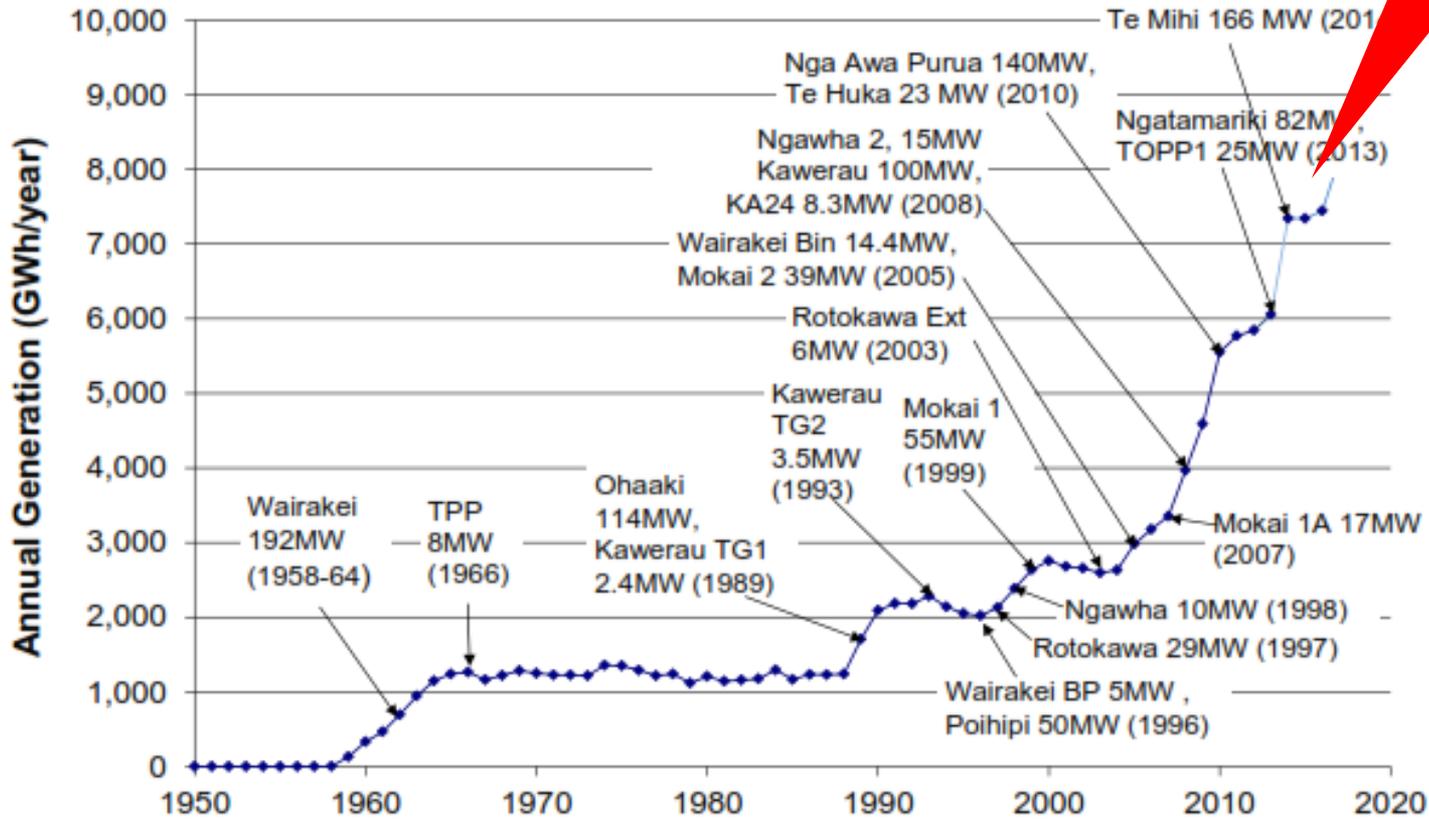


Nga Awa Purua (2010) – 140 MW, Triple Flash single steam turbine

A Long Term Geothermal Strategy

Over sixty years of development

980 MW
& 7,500
GWhr



New Zealand Geothermal Programme

Geothermal Aid Programmes

- New Zealand provides geothermal technical assistance to Indonesia, the Caribbean and Comoros in Africa.
- Continued work in Comoros and Africa will come under the NZ-AGF.



New Zealand's existing Africa project - Comoros

- Partnership with Government of Comoros, UNDP and New Zealand
- Geothermal resource estimated 40MWe
- Successful Comoros application to Geothermal Risk Mitigation Facility (GRMF)
- To date USD18million for surface exploration and test drilling



New Zealand Geothermal

- New Zealand is small donor = strategic, unique, smart, niche
- New Zealand is practical and innovative, trusted partner.
- New Zealand recognises four factors that assist geothermal development
 1. Well characterised geothermal resource
 2. Adequate human and engineering resources
 3. An investment enabling regulatory process
 4. Access to finance (equity, debt) & opportunity to leverage.

THE NEW ZEALAND AFRICA GEOTHERMAL FACILITY

The New Zealand – Africa Geothermal Facility (NZ-AGF) is established under partnership arrangement between New Zealand Ministry of Foreign Affairs and Trade (MFAT) and the Africa Union Commission (AUC).

The NZ-AGF is hosted by & located with the Regional Geothermal Coordination Unit of the AUC.



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Objective of facility

The NZ-AGF is designed to provide responsive, flexible and timely geothermal technical assistance and capacity building for East African countries to develop their geothermal energy.

The NZ - AGF will prioritise assistance for overcoming barriers, that are currently stalling projects, to bring them closer to generation and distribution.

GOVERNANCE STRUCTURE

The key governance mechanism for the NZ-AGF will be through a Steering Committee composed of New Zealand Ministry of Foreign Affairs & Trade (MFAT) and Africa Union Commission (AUC).

Facility Manager will be based in the AUC in Addis to identify and coordinate projects and will be responsible for providing the necessary administrative, procurement and support services for the operation of the NZ-AGF.



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EXPECTED RESULTS

The NZ-AGF will support geothermal energy production through:

- Increased number of geothermal energy projects meeting investment criteria
- Increased investment and local participation in the geothermal energy sector
- Improved sector planning, regulation, management and technical capacity



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FORMS OF ASSISTANCE

Technical assistance for geothermal development and distribution including:

- technical studies and reports,
- advisory services,
- peer review,
- quality assurance services,
- training and capacity building.



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DELIVERY MODEL

The NZ-AGF will adopt a demand-driven technical assistance facility model.

NZ is practical, innovative and trusted partner that will deliver tangible inputs to partner countries.

NZ is small donor, strategic, unique, smart, niche



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BENEFICIARY COUNTRIES

The target countries are those eligible for GRMF funding: Burundi, Comoros, Djibouti, DRC, Eritrea, Ethiopia, Kenya, Rwanda, Tanzania, Uganda, Zambia. Malawi,

Mozambique, Sudan and Egypt will also be eligible to participate in regional professional learning & development activity, in line with GRMF arrangements.



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PROGRAMME TIMING and BUDGET

The budget for the Facility is NZ\$10 million and the programme is expected to be implemented over 5 years (2017 – 2021).



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THANK YOU