

Unlocking Samoa's geothermal potential for indigenous prosperity

Victor Vito - Mamana Energy





My Story



Samoan Life



The Need

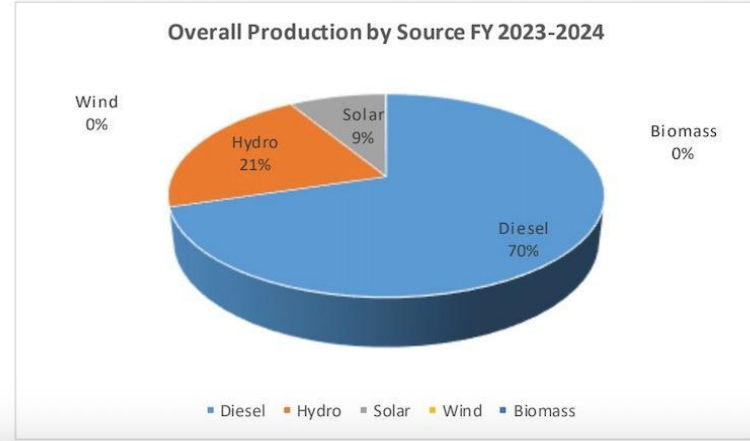
Samoa suffering energy crisis after weeks of power outages

Pacific country this week declared state of emergency over power cuts that have caused huge disruption to businesses and daily life



Samoa is in the grip of an energy crisis Photograph: Maximilian Weinzierl/Alamy

Figure 02: Overall Production by Source



Reliable electricity supply needed, not power rationing

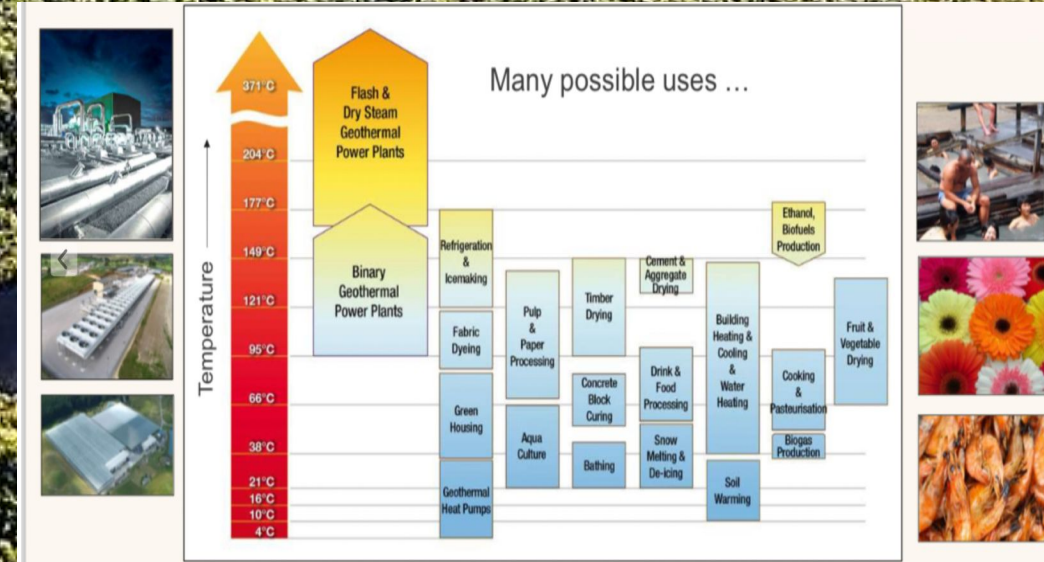
EDITORIAL



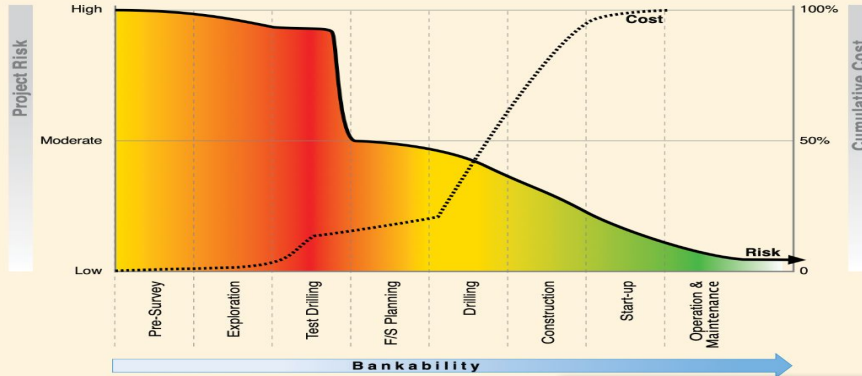
Global Opportunity & Development Pathway

Activity / STAGE	Description	Duration	Loc Costs (NZD)	For Cost (NZD)	Funding Body
1. Geological review	Desktop geological review focusing on volcanic history, structural setting, and implications for geothermal potential	1 month			Private
2. Surface recon	Field survey of groundwater wells and springs. Conductivity measurements, water and rock sampling, and temperature measurements. Laboratory analyses and report.	2 months (10 days in field)			Private
3. MT survey	100 station MT survey	3 months			Private
4. Resource assessment and exploration drilling plan	Comprehensive resource assessment report containing initial drilling program, civil infrastructure design, procurement documents and initial financial analysis.	2 months			TBC
5. ESIA	An initial Environmental, Social Impact Assessment will be completed prior to the drilling works.	3 months			TBC
6. Slim hole drilling	3 wells, 500-1000 m slim hole drilling programme using coring rig	6 months (including mobilisation)			TBC
7. Pre-Feasibility Report	Comprehensive Pre-feasibility report containing a summary of all the findings and conclusions, including a full financial analysis. Also includes a Project information Memorandum (PIM) to an international bank standard used to attract future investments.	2 months			TBC
TOTAL		19 months			

Figure 3: Table showing Geothermal Exploration Activities / Stages, Duration, Loc Costs, Cost and relevant Funding Body.

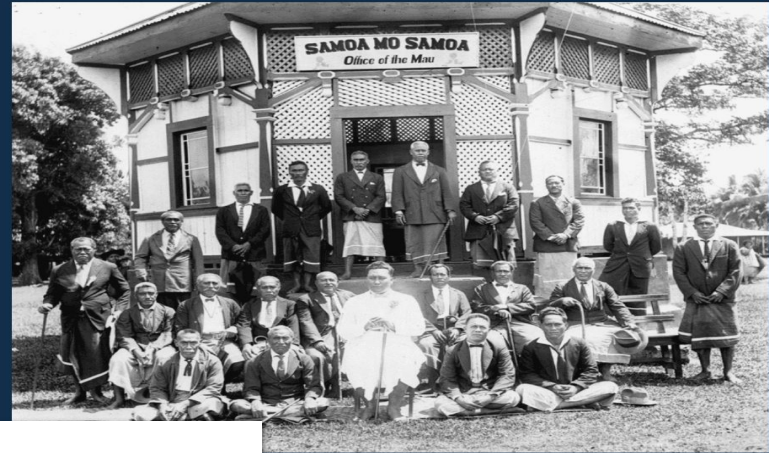


Geothermal Project Risk and Cumulative Investment Cost

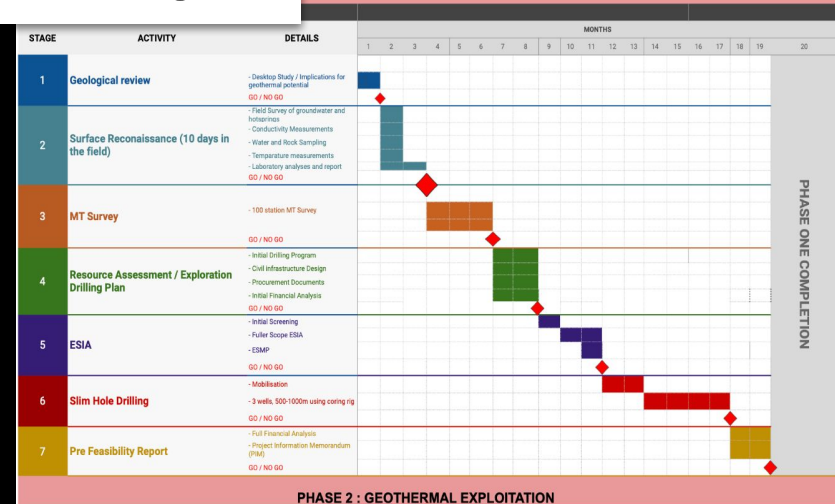
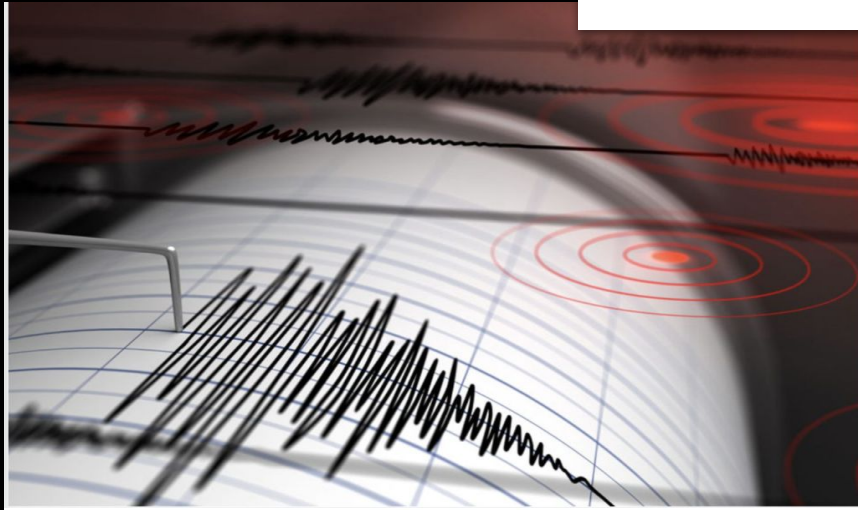


Source | Authors.

Risks and Challenges



King Tupua Tamasese Lealofi III in front of Mau office in 1929.





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