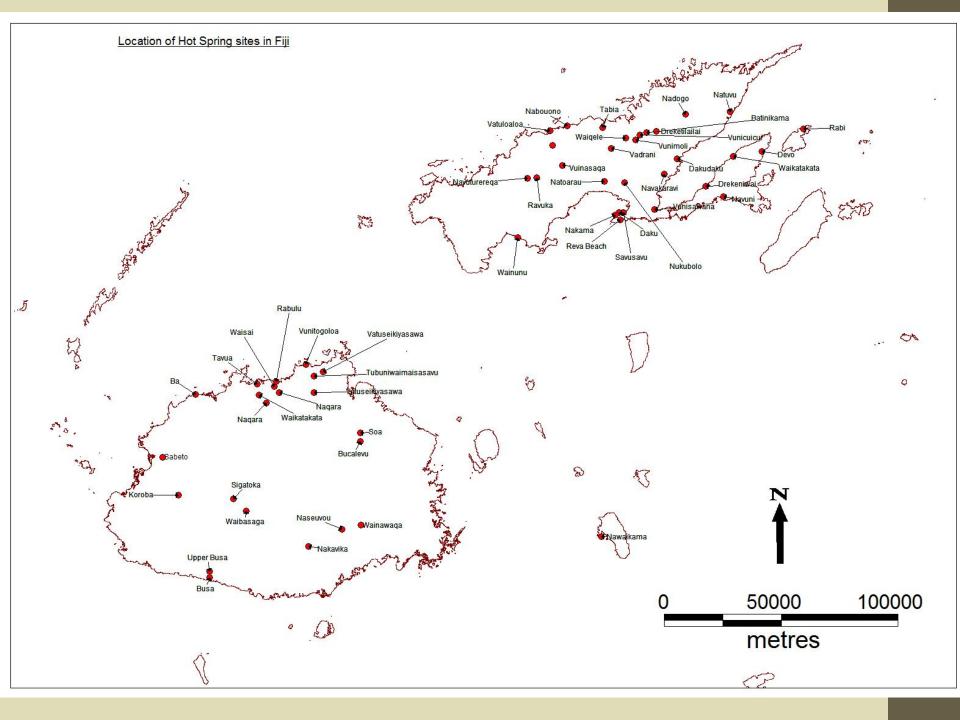


Status of Geothermal Energy Exploration in Fiji

National Consultation on Renewable Energy Readiness Assessment
NOVOTEL
13th March, 2014

Geothermal Energy

- Geothermal resource heat (thermal) obtained from the earth (geo)
- Renewable and sustainable heat energy found in rocks and fluids in the earth's crust
- Associated with volcanic activity
- Consists of 3 parts:
 - Heat source
 - Reservoir
 - Circulating system
- Geothermal energy:
 - Generate electricity
 - Space heating and cooling
 - Industrial processing
 - Agricultural applications



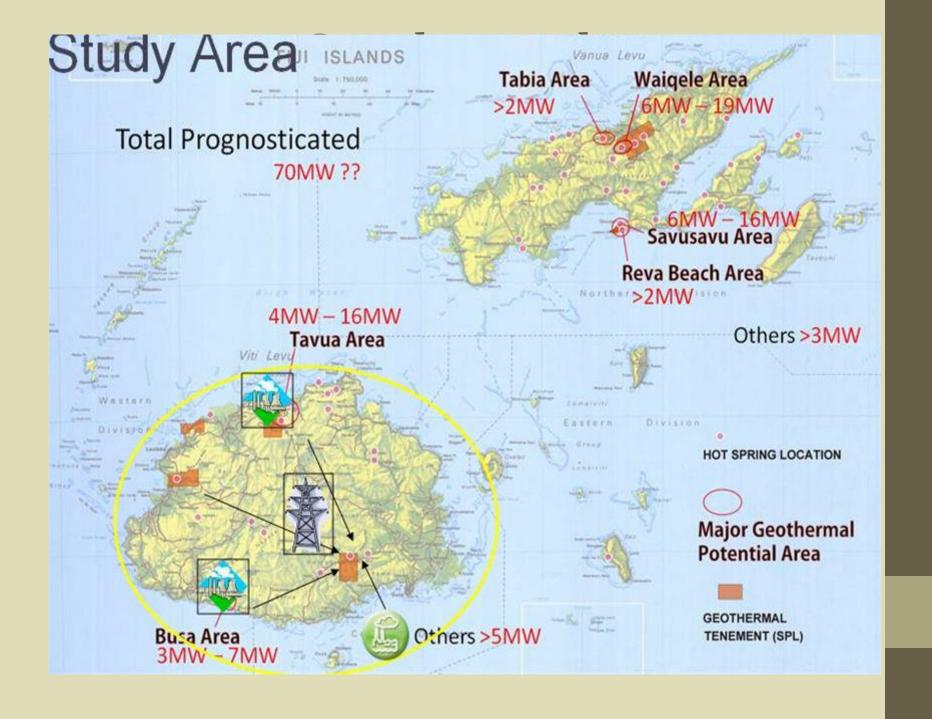
Geothermal Surveys/Explorations

PAST

- Surveys have been carried out since 1956 undergoing reconnaissance investigations of hot springs in Fiji to detailed studies up until 1994 to improve the understanding of geothermal potential.
- An intensive study on power generation options on Viti Levu was conducted in 2009 by the Japanese government.
- Findings from the survey included:
 - 2 potential sites identified for geothermal energy production being Tavua and Sabeto;
 - Estimated production of 6MW geothermal generation;
 - Further studies into the sub-surface was suggested (drilling) to confirm the definite geothermal energy generation;
 - 1MW saves 5,100 t of CO₂ emissions.

PRESENT

 Exploration companies have shown interest in geothermal exploration and has resulted in the issuance of Special Prospecting Licenses (SPLs)

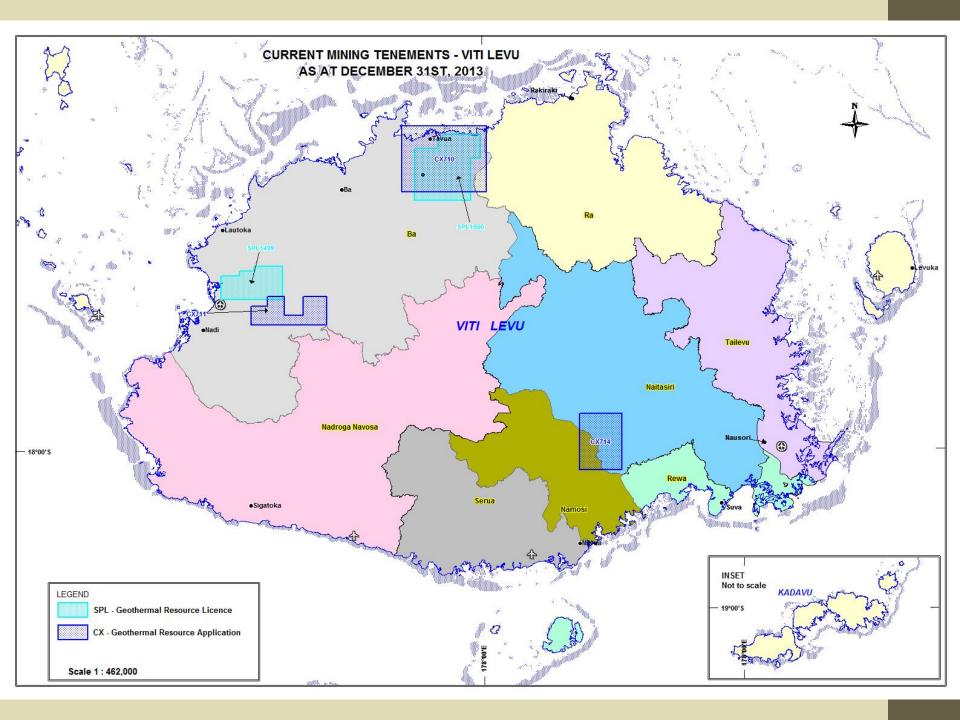


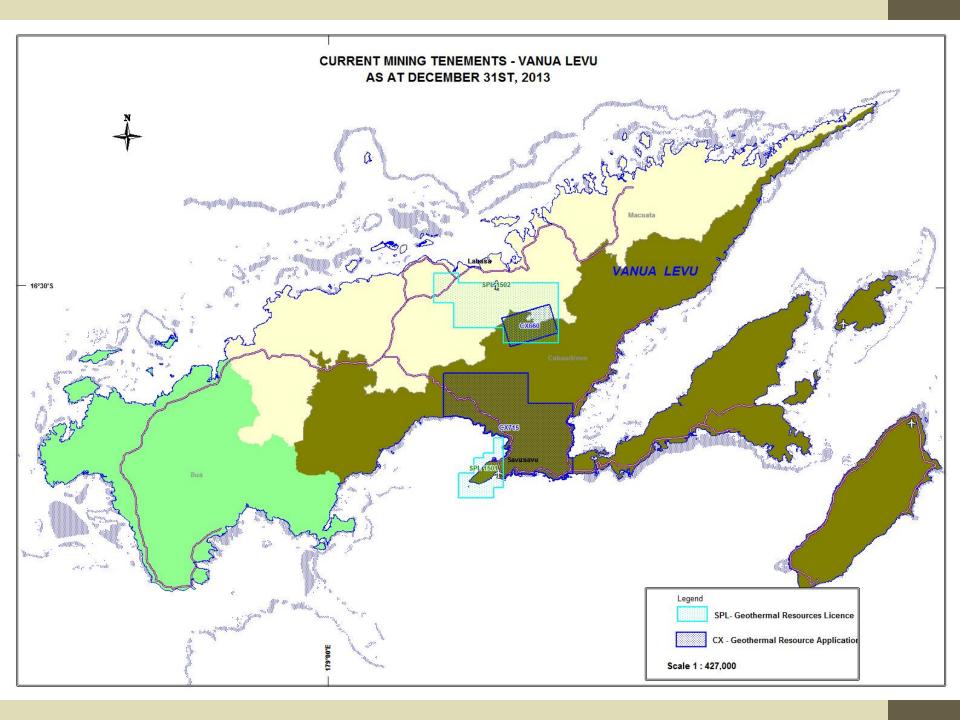
Licensing

- Covered under the Mining Act (1978) as Geothermal Heat and its resources is classified as a Mineral
- 4 Special Prospecting Licenses (SPL) for geothermal exploration
- (Savusavu, Labasa, Vatukoula, Nadi)
- 2 active SPLs and 2 SPLs have lapsed
- 4 applications on hold due to pending legal matters
- Other prospective site Namosi, Busa (Sigatoka)

Licensing (cnt'd)

Location	Remarks
Labasa	Active license
Savusavu	Active license
Sabeto	Lapsed license
Tavua	Lapsed license
Ba, Tavua and Rakiraki	Pending application
Ba, Nawaka and Vuda	Pending application
Namosi and Waimaro	Pending application
Wailevu and Vaturova	Pending application





Legal Framework

No specific legislation on geothermal resource.

Mining Act 1978 Section 2:

"The following mineral substances are declared to be mineral substances included in paragraph (f) of the definition of "minerals" in section 2 of the Act

Geothermal resources and their heat

Technology



Drill Rig