

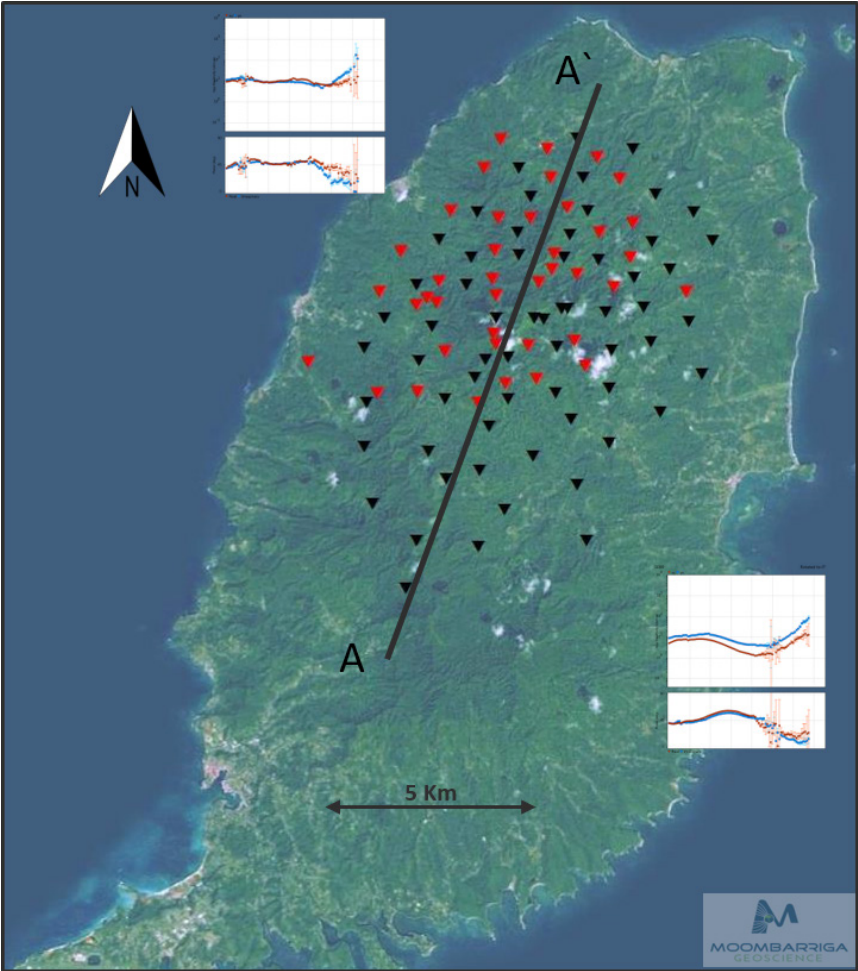
Geothermal Energy: Nation of Grenada

Magnetotelluric (MT) Resistivity Survey

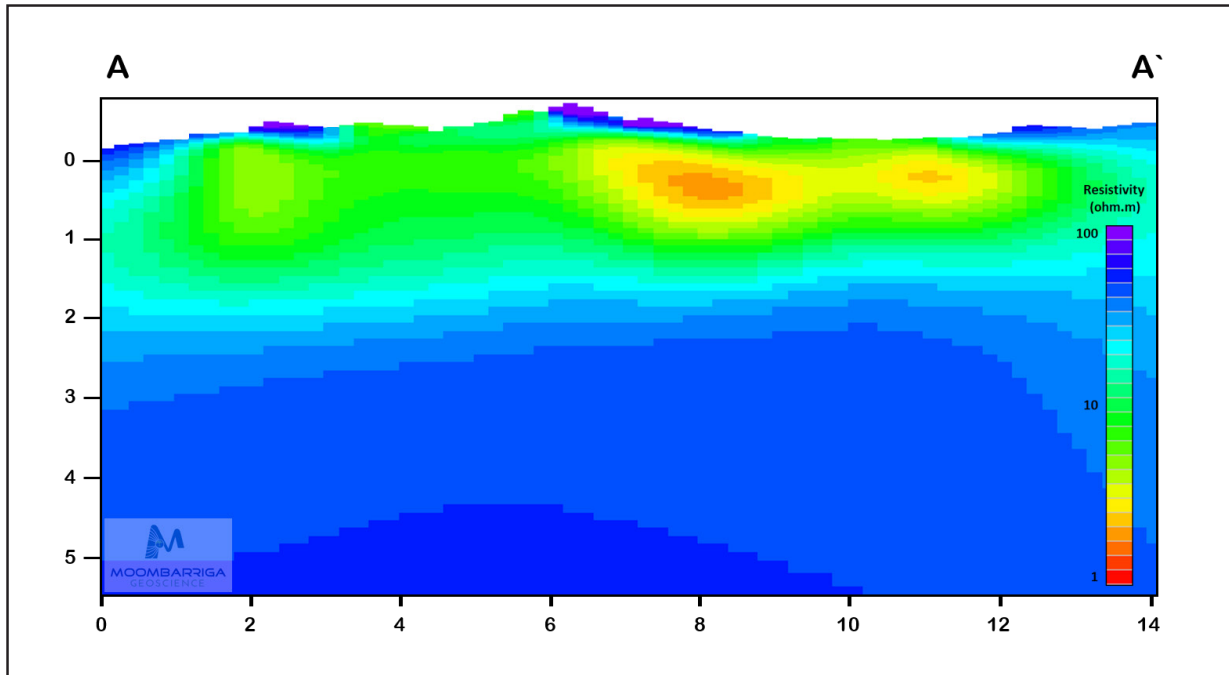
Moombarriga was contracted to assist the Nation of Grenada to advance Geothermal power production by performing an MT survey. The MT survey was used to map a clay layer that is associated with an altered zone linked to the potential geothermal reservoir.



Over 100 broad-band MT sites at spacing of 500-1000 metres were collected during the survey. Data were collected for a minimum of 12 hours to resolve apparent resistivity in the 10,000-0.01Hz frequency range. A remote base station was used so that sophisticated remote reference processing could be performed on the data.



MT sites with cross-section location and processes data examples



A resistivity section taken from the 3D model. The 3D inversion was run to correct for any distortions that may be present from topography and bathymetry. The results show the targeted clay later is well resolved in this part of the model and will help define the extents of the geothermal resource.