

Question number	Answer	Notes	Marks
5 (a) (i)	geothermal / geothermic;	allow nuclear	1
(ii)	any suitable resource or method; e.g. <ul style="list-style-type: none"> • wind (turbine) • hydro-electric • waves • tidal • solar (panels) • biofuels/biomass 	ignore nuclear ignore unqualified 'water' allow photovoltaic cells, (sun)light allow wood	1
(b)	any four from: MP1. thermal energy is transferred from hot rock to cold water OR water heats up; MP2. water molecules gain KE (as they are heated); MP3. steam gains KE as it is heated by the rock; MP4. GPE of steam increases as it gains height; MP5. turbine gains KE from hot water/steam; MP6. generator (coils) transfer KE (from turbine) into electrical energy; MP7. electrical energy is transferred from pump into GPE/KE of water;	allow 'mechanical energy' for KE throughout allow 'heat' for thermal energy allow water turned into steam allow turbine transfers KE to electrical energy total marks = 6	4