Site			Dixie Valley-Cottonwood Canyon	Newberry Caldera	Meager Creek	Roosevelt	Hawaii, Big Island	Soda Lake 2009	Cove Fort	Summer Lake-Paisley?	Clear Lake	Capitol Power Plant	Poplar oil field, MT	Mt. Hood	Allegheny Basin, NY	Desert Peak	Winnie, TX	Greys Lake, ID	Coso-Caithness	Coso-NAWS
Criterion																				
Characteristics of Resource	**5=High, 1=Low**	**Target**																		
Temperature at Depth or Temperature gradient °C/km or (°F/100 ft)	(5)≥350C at 4km, (4)≥300C at 4km, (3)≥250C at 4 km or 2.8(51), (2)≥200C at 4km, (1)≥150C at 4km	3 or higher	4	4	3	5	5	4	4	3	5	2	1	1	1	3	2		5	4
Tectonic stress	Trans-tension (5), extension (4), strike-slip (3), compression (2), no or very low stress (1)	4 or higher	5	3	3	4	4	5	3	5	4	1	3	3	4	4	4		5	5
Geology	Sediments over crystalline basement (5), tight sandstones (4), crystalline basement at surface (3) limestones or medasediments or highly variable volcanics (2), shales, slates clays (1)	4 or higher	5	4	4	5			4	3	3	5	4	4	4	5	4		3	3
Joint Spacing	Closely spaced 1-5 m, tight fractures, no major faults (5), fractures spaced 6-20 m apart, no major faults (4), 21-100 m apart and faults but mapped at a distance (3), 100-300 m apart or major faults close by (2), >300 m apart or major through going faults (1)	3 or higher	3	4	4	4	4	4	4	5	3	3	3	3	3	3	3		3	4
Existing Resource Information	**5=High, 1=Low**	**Target**																		
Temperature data	Detailed temperature logs available from: 5) Target depth, 4) >3 km, 3) >2 km, 2) 1 km, 1) <1 km	4 or higher	5	5	5	5			5	3	5	2	1	1	3	5	3		5	5
Wells - Shallow	5) ≥50 gradient holes, 4) ≥20 gradient holes, 3) 10 or more gradient holes, 2) ≥5 gradient holes, 1) no gradient holes	3 or higher	4	2	3				2		4	2	2	2	1	3	1		5	3
Wells of Opportunity	5) Wells to target depth still open and available 4) Wells in past to target depth, 3) 1 or more deep holes to 1/2 planned depth, 2) Shallow stratigraphic wells, 1) no data	3 or higher	5	5	5				5		4	3			3	4	5		5	5
In Situ Fluid	pH and salinity TDS silica																			
Joint Distribution	Closely spaced 20 m, tight fractures, no major faults, oriented 22º from δmax., not mineralized (5), fractures spaced 10 m apart, no major faults (4), 21-100 m apart and faults but mapped at a distance (3), 100-300 m apart or major faults close by (2), >300 m apart or major through going faults (1)	3 or higher	3	4	4					5	3	3	3	3	3	3	3		3	4
Undisturbed Permeability	we want some permeability to initiate fractures									5	3	3	3	3	3	3	3		3	4
Geologic mapping	5) Detailed, 3D geologic mapping matched with deep wells, 4) Detailed 2D geologic mapping matched with geophysics, 3) Detailed geologic mapping, 2) Regional geology, 1) No data	4 or higher	5	5	5				5		5	4			5	4	5		5	5
Aerial photos or other remote sensing	5) 'Recent aerial or very high res. satellite or InSAR photo coverage with ortho rectification, 4) aerial photo coverage flown for project or InSAR, 3) High resolution satellite imagery at several frequencies, 4) low res. satellite imagery, 5) No coverage	2 or higher	4	3	3				3		3	3			3	3	3		5	5
Geophysics	**5=High, 1=Low**	**Target**																		
Gravity	3) Recent high resolution gravity data, 2) Old low resolution gravity data, 1) no gravity data	Not really crucial, 2 or better	2	1	3				1		2				2	2	1		2	2
MEQ monitoring	5) 5 years or more of data with operating array in place, 4) 1 year of data with array in place, 3) Array in place, 2) Permanent monitoring stations nearby, 1) No data	3 or higher	5	2	1				2		2				1	2	1		5	5
Seismic reflection	3) Recent high quality seismic data modern processing, 2) Good seismic data, oil field processing, 1) no data	Not really crucial, 2 or better	3	1	1				1						2	1	5		5	5
Resistivity/SP/MT	3) Recent high 3D MT, modern processing, 2) Recent high resolution 2D, 1) No data	Not really crucial, 2 or better	2	?	?				?						1	2	1		5	5
Social, Political, Economic Factors	**5=High, 1=Low**	**Target**																		
Environmental Impact	EIS completed and approved (5), or no issues (4), no scenic beauty, national parks or wildlife refuges nearby. Area disturbed and developed. (3), in disturbed area near scenic area or area with environmental sensitivity (2), Area of scenic beauty, environmental sensitivity or restricted access (1)	2 or higher	4	2	2				2		4	4			4	5	5		5	5
Seismic Susceptibility	(5) Little or no seismic hazard due to few or no earthquakes >2 magnitude, far from large faults and very low population density 4) Low seismic hazard due to only very small earthquakes with low population density 3) Moderate seismic hazard due to few earthquakes >3 in magnitude and low to moderate population density 2) Moderately high seismic hazard due to some felt earthquakes and recorded quakes over 4 mag with moderate to high population density 1) High seismic hazard due to many felt earthquakes and history of destructive quakes with high population density 0) Very high seismic hazard due to large number of felt quakes in recent time, and regularly occuring destructive quakes on fault in connection with proposed reservoir in an area of very high population density.	4 or higher	3	3	4				3						3	4	4		3	3

Water availability	5) Ground or surface water available in quantities suitable for wet cooling at site with water rights as part of deal 4) Ground or surface water available in quantities suitable for wet cooling within 6 km of site with water rights as part of deal 3) Water rights can be purchased 2) water in short supply, expensive, or water rights may not be available without difficult negotiation or land purchase 1) Closed water basin, no rights, no access to water	3 or higher	3	3	5				3	4	2	5	4							
Site access	(5) Site is level with major roads less than 20 km and rail access within 20 km and existing road in good repair to site (4) Site is low slope with easily graded soils, roads into site with major roads within 50 km of site 3) No road into site or long steep or dangerous road but with right of way for roads along easy route to construct and major roads within 100 km of site 2) No road to site, but could be constructed over rugged terrain, right of way available for purchase 1) Steep slopes, no roads, snow, avalanche or landslide hazard, construction possible but expensive 0) Very steep slopes, landslides, avalanches, or other geologic hazard conditions and no roads or possibility of building roads	3 or higher	4	4	1				4	5	5	5	5							
Operating power plant	5) Operating plant with spare capacity, 4) Operating plant, 3) Plant planned for next 2 years, 2) Plant planned for next 5 years, 1) no plant planned	2 or higher	4	2	2				2	1		3			1	5	1		5	5
Power transmission	5) < 1 mile to substation, 4) Less than 10 miles to substation, 3) less than 20 miles to substation, 2) Less than 50 mi to substation, 1) more than 100 mi to substation	3 or higher	5	4	2				4						4	5	5		5	5
Power market	5) State with RPS, power prices over 9 cts/kw-hr, 4) Renewable credits and open market, price over 8 cts 3) Carbon credits, price over 7 cts, 2) Power prices over 6 cts/kW-hr, 1) Power prices 5 cts or less	4 or higher	4	5	1				5						5	3	4		4	4
Land Ownership/Availability	5) Geothermal lease or fee simple land can be purchased for project use, 4) 'Current lease holder will transfer, farm out or allow use under contract with Altarock control, 3) Land leased, owner will allow Altarock use for demonstration project with joint venture owner input, 2) Land leased owner will control operations, 1) Land not leased	4 or higher	2	5	3				3						1	4	3		2	2
Political climate	5) Favorable political climate such as RPS, state incentives, and public willingness to pay higher prices for green power 4) Public interest in green power, state legislation encouraging green power, 3)open power market, state or local interest in renewables, jobs 2) Utility monopoly, PUC mandated diverse port folio, 1) No interest in renewables, no market for power.	3 or higher	5	5	3				5							5	5		5	5
Economics	**5=High, 1=Low**	**Target**																		
Total Acreage	5) 10 or more contiguous sections (6400 acres) on resource 4) 5 or more contiguous sections on resource 3) small parcels can be consolidated into reasonably contiguous package 2) acreage not contiguous but available may have to unitize in adjacent sections 1) small area on resource with parcels not contiguous																			
Condition of Wells of Opportunity	5) Wells drilled to target depth for geothermal use, ie large diameter (9 5/8 prod casing or larger) in good condition open and ready to use 4) wells drilled for geothermal to target depth, but abandoned. Data available, could be openned 3)Wells drilled for geothermal use on site that could be deepened 2) Wells drilled to target depth but completed for other use (O&G) 1) Slim holes or coreholes to depth, but not usable	3 or higher		4																
Most recent contact																				
Calculated IRR Demo project																				
Calculated IRR 100 MW project																				
Calculated cost of power Demo project																				
Calculated cost of power 100 MW project																				
Needs																				
Existing Resource Information																				
	Total Score		**89**	**76**	**67**	**23**			**70**	**39**	**57**	**48**	**29**	**20**	**57**	**78**	**71**	**0**	**93**	**93**