Play Fairway Analysis Phase II: Projects Selected for Continued Funding

Selected Project	City	State	Phase I Project Highlights	Preliminary DOE Share for Phase II
Nevada Bureau of Mines and Geology, University of Nevada, Reno	Reno	NV	• Ranked heat and permeability data subsets to define geothermal play fairways in west-central to eastern Nevada • Applied statistics based on known high-temperature geothermal system benchmarks to weight hierarchal parameters • Developed permeability and overall geothermal potential predictions for study area, as displayed on geothermal play fairway and favorability maps	$825,000
Utah State University	Salt Lake City	UT	• Compiled data related to heat source, reservoir and recharge permeability, and cap/seal for the Snake River Plain • Created process to convert data layers to evidence and confidence layers, which were then used to derive risk maps for heat, permeability, and seal • Identified 8 favorable areas with multiple prospects including: Kuna-Marsing, Mountain Home, Castle Creek-Bruneau, Deadman Flat, Camas Prairie-Mount Bennett Hills, King Hill, Banbury, Arco Rift, and Blackfoot	$664,971
University of Hawaii	Honolulu	Hawaii	• Compiled and integrated existing data to produce a comprehensive statewide geothermal assessment—the first since 1985 • Ranked legacy and current datasets in terms their of ability to indicate subsurface heat, permeability, and fluid • Produced a statewide map of geothermal resource probability, and a map of confidence in this probability	$720,000
Ruby Mountain Inc.	Salt Lake City	UT	• The project compared two methods - deterministic and stochastic – for purposes of creating a geothermal play fairway analysis for the Tularosa Basin • In total, twelve plays were identified and then ranked by the level of certainty (e.g. Identified plays with a greater level of certainty were ranked higher) • The highest ranking play is on Fort Bliss' McGregor Range in Otero County, New Mexico	$711,200
University of Utah/EGI – Great Basin	Salt Lake City	UT	• Assessed heat and permeability potential in the Eastern Great Basin • Developed a favorability map • Identified prospects near Roosevelt Hot Springs, Twin Peaks, Crater Knoll, and Pavant Butte	$720,000
Washington Division of Geology and Earth Resources	Olympia	WA	• Developed detailed models of heat and permeability potential at 3 sites in the Washington Cascade Mountain Range. • Combined heat and permeability models to look at favorability and risk at 200m and 3km depth. • Areas of interest for continuing work are: southeastern Mount Baker, the northern and southern Mount St. Helens seismic zone, and the Wind River valley	$452,810