

# GEOTHERMAL ENERGY RESOURCE ASSESSMENT ON MILITARY LANDS

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## **ABSTRACT**

Innovative Technical Solutions, Inc. (ITSI) evaluated geothermal potential on selected military bases in the U.S. for the Department of Defense. Assessment activities included literature reviews, interviews with local specialists, geothermal field investigations at 3 installations, and development of conceptual geothermal occurrence models. Occurrence models integrate geothermal system characteristics with local structural/tectonic characteristics to identify potential geothermal targets. Spatial analyses of selected coverages using GIS were also performed for the ranges at Nellis AFB in order to identify possible geothermal targets.

NAF El Centre has "high" utility-grade geothermal potential and at least four other installations investigated warrant additional investigation. Twenty-one western U.S. installations have direct-use geothermal potential, with bases in Oregon, Nevada and California having the greatest potential.

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