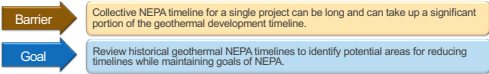


# Geothermal NEPA Database on OpenEI

## BACKGROUND



- Data were collected to inform analyses of NEPA timelines.
- Collected data were made publicly available via NEPA Database in case others might find the data useful.
- NREL used a wiki platform to allow industry and agencies to maintain the content in the future (if desired) so that it continues to provide relevant information to users.
- The long-term success of the NEPA Database will depend on the willingness of federal agencies, industry, and others to populate the database with NEPA and related documents, and to use the data for their own analyses.
- As the information and capabilities of the database expand, developers and agencies can save time on new NEPA reports by accessing a single location to research related activities, their potential impacts, and previously proposed and imposed mitigation measures.

## DOCUMENT SOURCES

Source	Type of Data	Comments on Available Data
Internet Search	EA and EIS reports	Some EA and EIS reports were available via the internet, largely because they were temporarily being made available for public comment.
BLM eNEPA Database <a href="https://www.blm.gov/enr/front-office/enr/management/ncms/ncms-reports">https://www.blm.gov/enr/front-office/enr/management/ncms/ncms-reports</a>	CX and DNA Worksheets, EA and EIS reports for BLM projects	Records date from 2011; contains links to CX, DNA, EA, and EIS documents; not complete for all offices
BLM LR2000 <a href="https://www.blm.gov/enr/2000/">https://www.blm.gov/enr/2000/</a>	BLM serial register pages with dates	BLM serial register pages (Case records for transaction records of leases, Rights of Way, Notice of Intent for exploration); records date from 1970s
Individual BLM Field Office Websites	EA and EIS reports open for public comment for BLM projects	NEPA documents that are temporarily available. Some offices' records date back to 2008; not complete for all offices; must know that documents exist, offices do not maintain a list of geothermal projects
Field Office Paper Files	BLM reports, applications, FONSI, decisions	Geothermal project files; records date from 1980s; most complete source; document numbers are required for request
DOE NEPA Database <a href="https://www.eere.gov/ncpa/home_documents">https://www.eere.gov/ncpa/home_documents</a>	Reports, FONSI, decisions, for DOE projects	Reported to have a complete set of data for DOE-led NEPA analyses from 2008 to the present

CX - Casual Use  
 EA - Determined Adequacy  
 DNA - Determination of NEPA Adequacy  
 EIS - Environmental Impact Statement  
 FONSI - Finding of No Significant Impact

## EXAMPLE NEPA DOCUMENT COLLECTION

NEPA Document Collection for: DOI-BLM-NV-C010-2010-0006-EA Gabbs Valley and Dead Horse Wells Geothermal Exploration Projects EA Scan (and query by) metadata collected for the activity

**Proposed Action**  
 Direct is proposing to conduct geothermal exploration projects in Gabbs Valley Nevada. The proposed action consists of exploration drilling, drilling temporary water wells, road construction and maintenance, both on lease and off lease, and installing four gravel pits... (text continues)

**Review the proposed action**  
 Documents  
 Serial Register Page  
 Application  
 Application Attachments  
 FONSI  
 Decision

**Resource Analysis**

Resource	Impact	Significant	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed
Air Quality									
Cultural Resources									
Geology/Soils									
Historic Resources									
Land Use									
Plant Resources									
Public Resources									
Recreation									
Seismicity									
Special Resource Studies									
Visual Resources									
Wild and Scenic Rivers									
Wildlife and Fisheries									
Water Resources									
Wetlands									
Other									

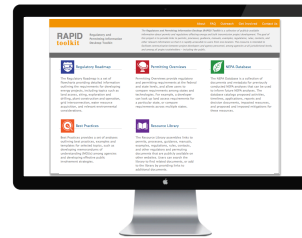
Review potential impacts to nearby resources along with applicant-proposed and agency-imposed mitigation

## FOR MORE INFORMATION



Visit the NEPA Database on the RAPID toolkit  
<http://en.openei.org/wiki/NEPA>

Read the full paper at:  
 Young, Katherine R. and Aaron Levine, Geothermal National Environmental Policy Act Database on Publicly Available Open Energy Information Website, Geothermal Resource Council, Transactions, Volume 38 (2014)



## QUERY BY GEOTHERMAL AREA

EXAMPLE: New York Canyon Geothermal Area (Nevada)

Document #	Analysis Type	Applicant	Application Date	Decision Date	Lead Agency	Development Phase(s)	Techniques
BLM-W01000-2009-0034-CX	CX	TGP Dixie Development Company, LLC	17 June 2009	16 July 2009	BLM	Exploration	2-M Probe Survey Ground Magnetics
NVN-087791	CU	TGP Dixie Development Company	23 June 2009	21 July 2009	BLM	Exploration	Magnetotellurics
NVN-087811	CU	TGP Dixie Development Co	30 June 2009	21 July 2009	BLM	Exploration	Magnetotellurics
NVN-087812	CU	TGP Dixie Development Co	30 June 2009	21 July 2009	BLM	Exploration	Electrical Techniques
DOI-BLM-NV-W010-2010-0004-EA	EA	Terra-Gen Power LLC	23 November 2009	15 October 2010	BLM	Exploration	Well Testing Techniques Exploration Drilling
DOI-BLM-NV-W010-2012-0005-EA	EA	Terra-Gen Power LLC	30 May 2011	3 June 2013	BLM	Power Plant Well Field Transmission	Development Drilling Downhole Techniques

## QUERY BY ACTIVITY

EXAMPLE: Seismic Activity

Document #	Analysis Type	Applicant	Geothermal Area	Lead Agency	District Office	Field Office	Development Phase	Activity
DOI-BLM-CA-E70-2010-0003-CX	CX	Ram Power	unknown	BLM	California Desert		Exploration	Seismic
DOI-BLM-ID-T020-2012-0003-CX	CX	Agua Caliente LLC	Abraham Hot Springs	BLM	Twin Falls	Burley	Exploration	Seismic
DOI-BLM-NV-C010-2010-0008-CX	CX	Terra-Gen Power LLC	Dixie Meadows	BLM	Carson City	Stillwater	Exploration	Seismic
DOI-BLM-NV-C010-2011-0004-CX	CX	Altasack Energy Inc	Dixie Valley	BLM	Carson City	Stillwater	Exploration	Seismic
DOI-BLM-NV-C01000-2010-0010-CX	CX	Terra-Gen Power LLC	Coyote Canyon	BLM	Carson City	Stillwater	Exploration	Seismic
DOI-BLM-NV-C01000-2010-0022-CX	CX	Terra-Gen Power LLC	Coyote Canyon	BLM	Carson City	Stillwater	Exploration	Electromagnetic Magnetotelluric Seismic
DOI-BLM-NV-W010-2010-0041-CX	CX	Stephen D. Muir	Brady Hot Springs	BLM	Winnemucca	Humboldt River	Exploration	Seismic
DOI-BLM-NV-W010-2010-0008-CX	CX	Oaki Energy LLC	Abraham Hot Springs	BLM	Winnemucca	Humboldt River	Exploration	Seismic
DOI-BLM-NV-W010-2010-0021-CX	CX	Geothermal	San Emidio Desert	BLM	Winnemucca		Exploration	Seismic
DOI-BLM-NV-W010-2011-0007-CX	CX	Geothermal	San Emidio Desert	BLM	Winnemucca		Exploration	Seismic
DOI-BLM-OR-P000-2010-0003-EA	EA	Davenport Power LLC	Newberry Caldera	BLM	Prineville		Exploration	Seismic Drilling Well Testing

## QUERY BY RESOURCE (POTENTIAL IMPACT)

Have a project you're developing? Use the database to review previously proposed and imposed mitigation measures for activities similar to your project or in the same area as your project

Document #	Analysis Type	Project Type	Activity	Analysis	Applicant-Proposed Mitigation	Agency-Imposed Mitigation
DOI-BLM-CA-E70-2010-0003-CX	EA	Geothermal	Exploration Drilling Well Testing	Present, Potentially Affected	Water and gravel would be applied for the dustless ground during the construction and utilization of the 80 pits and access roads as measured in current record.	
DOI-BLM-NV-C010-2008-EA	EA	Geothermal	Exploration Well Testing	Not Present	All applicable state and federal air quality standards shall be met through the use of the best available control technology (BACT). Reduction in dust shall be achieved by using dust abatement techniques, wherever appropriate. Using dust abatement techniques such as water or recycled water applied to the roads throughout the project area in order to reduce dust emissions, and access roads in project area roads, and other north area roads will be maintained in a regular basis to provide dust and gravel for sale.	
DOI-BLM-NV-C010-2010-0008-CX	EA	Geothermal	Exploration Drilling Well Testing	Present, Potentially Affected	To minimize air pollution emissions from construction activities, all construction activities shall be limited to daylight hours for higher dust and noise and shall result in implementation during construction activities. Grading activities shall be limited to daylight hours, wherever appropriate. Using dust abatement techniques such as water or recycled water applied to the roads throughout the project area in order to reduce dust emissions, and access roads in project area roads, and other north area roads will be maintained in a regular basis to provide dust and gravel for sale.	