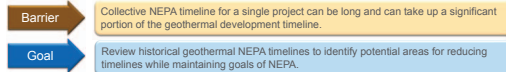


Geothermal NEPA Database on OpenEI

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 https://www.blm.gov/epl-front-office/explaining/eneпа/eneпа_user.do	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 http://www.blm.gov/lr/2000/	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's, decisions	Geothermal project files, records date from 1980s, must request source, document numbers are required for request
DOE NEPA Database http://energy.gov/nea/nea-reports-documents	Reports, FONSI's, decisions, for DOE projects	Reported to have a complete set of data for DOE-LE NEPA analyses from 2008 to the present

CS - Current Issues

CS - Categorical Exclusions

DNA - Determination of NEPA Adequacy

EA - Environmental Assessment

EIS - Environmental Impact Statement

FONSI - Finding of No Significant Impact

DOCUMENTS COLLECTED



Types of documents collected include:

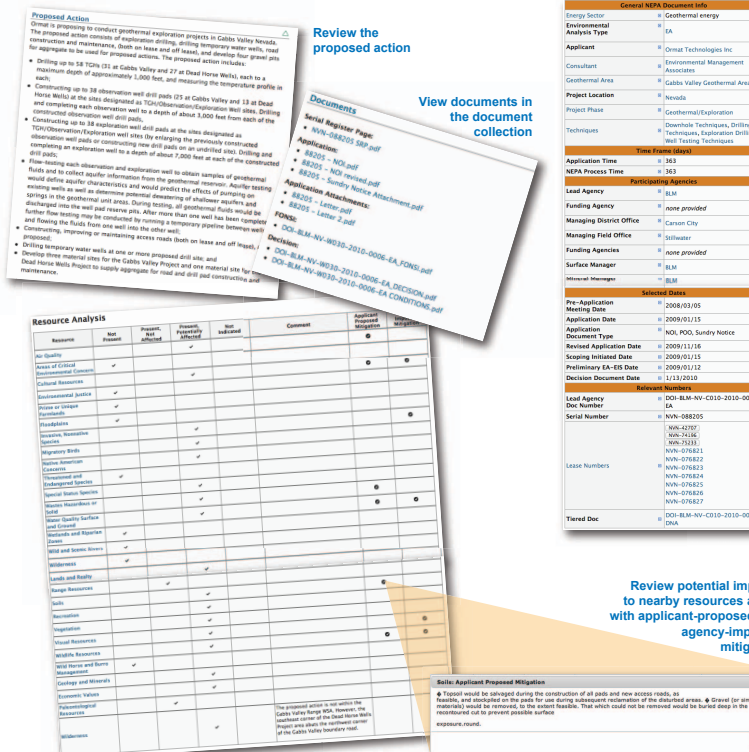
- Application Files
- Casual Use Documents
- Determination of NEPA Adequacy (DNA) Worksheets
- Categorical Exclusion Approvals
- BLM Serial Register Pages
- Environmental Assessment Reports
- Environmental Impact Statement Reports
- Decision Record Documents
- Findings of No Significant Impact (FONSI) Documents

Type of Document Collection	# of Database Entries	Permit Applications ¹	Reports	FONS s	Dec s ons
Casual Use	26	18	19	NA	20
Determinations of NEPA Adequacy	30	1	27	NA	27
Categorical Exclusions	53	17	13 <i>(not current)</i>	NA	53
Environmental Assessments	61	2	50	39	17
Environmental Impact Statements	6	0	5	NA	4
TOTALS	178	38	114	39	70

^aNote that we expect the number of permit applications collected in our database to be low (compared to the collection of other documents), because many of these are nonmonetary. Only publicly available permit applications were included in the database.

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](#)



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 #	Analyst Type	Applicant	Application Date	Decision Date	Lead Agency	Development Phase(s)	Techniques
LLNV-W10000-2009-0034-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-W1000-2010-0004-EA	EA	Terra-Gen Power LLC	23 November 2009	15 October 2010	BLM	Exploration	Well Testing Techniques Exploration Drilling
DOI-BLM-NV-W1000-2012-0005-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 Surveys

Document #	Analysis Type	Applicant	Geothermal Area	Lead Agency	District Office	Field Office	Development Phase	Activity
DOI-BLM CA-670-2010-CX	CX	Ram Power	unknown	BLM	California Desert		Exploration	
DOI-BLM-ID-T020-2012-0003-CX	CX	Aqua Caliente LLC	Abraham Hot Springs	BLM	Twin Falls	Burley	Exploration	Seismic
DOI-BLM-NV-C010-2010-0006-CX	CX	Terra Gen Power LLC	Dixie Meadows	BLM	Carson City	Stillwater	Exploration	Seismic
DOI-BLM-NV-C010-2011-0004-CX	CX	Altalock Energy Inc	Dixie Valley	BLM	Carson City	Stillwater	Exploration	Seismic
DOI-BLM-NV-C010-2010-0010-CX	CX	Terra Gen Power LLC	Coyote Canyon	BLM	Carson City	Stillwater	Exploration	Seismic
DOI-BLM-NV-C010-2010-0022-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-W010-2010-0045-CX	CX	Oil Energy LLC	Abraham Hot Springs	BLM	Winnemucca	Humboldt River	Exploration	Seismic
DOI-BLM-NV-W030-2010-0021-CX	CX	US Geothermal Inc	San Emidio Desert	BLM	Winnemucca		Exploration	Seismic
DOI-BLM-NV-W030-2011-0007-CX	CX	US Geothermal Inc	San Emidio Desert	BLM	Winnemucca		Exploration	Seismic
DOI-BLM-OH-P000-2010-0010-IA	IA	Davenport Power LLC	Newberry Caldera	BLM	Prineville		Exploration	Seismic Drilling

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

EXAMPLE: Air Quality

Document #	Analysis Type	Project Type	Activity	Analysis	Applicant-Proposed Mitigation	Agency-Imposed Mitigation
DO-RLM CA-670-2010-CX	EA	Geothermal Drilling, Well Testing	Present, Potentially Affected	Water and gravel would be utilized as the dustabed grout during the construction and application of the old pads and access roads is necessary to control dust.		
DO-RLM NV-008-08-08	EA	Geothermal Drilling, Well Testing	Not Present	All explosive shales and bedrock are quality standards would be met through the use of the best available technology to control emissions. Application of water on roads and pads after reclamation to suppress dust. The project will be designed to avoid dust impacts through the project area in order to reduce dust emissions, and other traffic ways would be maintained on a regular basis to remove dust and provide for easy travel conditions.		
DO-RLM NV-010-2010-008-CX	EA	Geothermal Drilling, Well Testing	Present, Potentially Affected		To minimize air pollution emissions from construction activities and construction and old pit lignite sites, the following BEMP's are required during construction activities: • Water spraying and dust suppression during construction operations. • Surface access roads with aggregate materials, whenever appropriate. • Water spraying and dust suppression during construction techniques, such as welding or on-going, unregulated sources to minimize airborne dust, as needed. • The source of water to be used for dust abatement is described in Section 2.1.4: Paving and enforcing speed limits to reduce lighter dust (speed limit of 15 miles per hour, as necessary) by applying dust abatement techniques (such as watering, mowing, leaving beds to be left to settle, etc.) • Implementing good housekeeping, such as: dust-bombing, sweeping, washing, and grading equipment. • Minimizing	