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**NEVADA GEOTHERMAL UPDATE**

**January 2008**

**NOTE - UPDATES AND NEW ITEMS ARE HIGHLIGHTED IN YELLOW**

**CURRENT POWER OPERATIONS**

<u>Plant/Operator (year on-line)</u>	<u>Nameplate Capacity *</u>	<u>Location</u>
<b>*Nameplate Capacity as reported to the Division of Minerals for 2006.</b>		
<b>Beowawe Power Plant (1985)</b> Beowawe Power LLC/Caithness Operating	<b>16.6 MW</b>	<b>S13, T31N R47E</b>

<b>Bradys Power Plant (1992)</b> <b>Brady Power Partners/ORMAT Nevada Inc.</b>	<b>26.1 MW</b>	<b>S12, T22N R26E</b>
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- ♦ ORMAT NEVADA, INC. (Brady Power Partners); State Permit #676; API #27-001-90323 for Production Well #16-12 issued Feb 12, 2007; NW/4 SW/4, Section 12 T22N R26E; Commercial production well in the Brady South Project Area; Desert Peak III – Brady Hot Springs; Churchill County, Nevada; PTD 5000'; Permitted location.
- ♦ ORMAT NEVADA, INC. (Brady Power Partners); State Permit #677; API #27-001-90324 for Production Well #17-12 issued Feb 12, 2007; SW/4 SW/4, Section 12 T22N R26E; Commercial production well in the Brady South Project Area; Desert Peak III – Brady Hot Springs; Churchill County, Nevada; PTD 5000'; Permitted location.

<b>Desert Peak Power Plant (1985)</b>	<b>12.5 MW</b>	<b>S21, T22N R27E</b>
<b>Desert Peak 2 Power Plant (2006)</b> <b>Brady Power Partners/ORMAT Nevada Inc.</b>	<b>15 MW</b>	<b>S21, T22N R27E</b>

- ♦ ORMAT Nevada Inc. "Production well #74-28"; State Permit #745 issued Dec 3, 2007; API #27-001-90353; SE/4 NE/4, S28 T22N R27E; PTD 1500'; Commercial production well location in the Desert Peak 2 project area, Brady Hot Springs, Churchill County, Nevada; **NEW LOCATION.**

<b>Dixie Valley Power Plant (1988)</b> Caithness Dixie Valley/Caithness Operating	<b>62.0 MW</b>	<b>S7, T24N R37E</b>
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- ♦ August 2, 2007 - Caithness Energy LLC and ArcLight Capital Partners, LLC announced an agreement where ArcLight will acquire interests in 18 geothermal, wind and solar power projects from Caithness. Geothermal Projects included in the agreement are: Coso, Dixie Valley, and Beowawe. Along with acquisition, ArcLight will also assume operation, maintenance and management for ten of the projects. The transaction is closed in early December 2007. The new company will be called Terra-Gen Power, LLC. ArcLight is headquartered in Boston and is a leading energy investment firm headed by Daniel Revers and Robb Turner. – <http://www.arclightcapital.com>

<b>Empire Power Plant (1987)</b> <b>Empire Energy LLC</b>	<b>4.8 MW</b>	<b>S21, T29N R23E</b>
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**Steamboat 1, 1A Power Plants (1986) 10.8 MW S29, T18N R20E**  
**Steamboat Geothermal, LLC/ORMAT Nevada Inc.**  
**Steamboat 2, 3 Power Plants (1992) 47.8 MW**  
**Richard Burdette Power Plant (Galena 1) (2005) 30 MW S29, T18N R20E**  
**Steamboat Development Corp./ORMAT Nevada Inc.**

- ◆ ORMAT Nevada, Inc. State permit #710, API #27-031-90247 for Injection well 23-33 issued August 2007; Located in the SW/4 NW/4 of Section 33, T18N R20E; PTD 2500'; Injection well location in Steamboat Springs, Washoe County, Nevada; Spud Oct 18, 2007 with DHS rig #14; Completed 11/14/2007; TESTING.
- ◆ ORMAT Nevada, Inc.; State Permit #708, API #27-031-90246 for Injection well 14-33 issued August 2007; Located in the SW/4 NW/4 of Section 33, T18N R20E; PTD 2500'; Injection well location in Steamboat Springs, Washoe County, Nevada; Spud Aug 10, 2007 with DHS rig #14; Completed Sep 15, 2007; TESTING.
- ◆ ORMAT Nevada, Inc.; Permit #670, API #27-031-90245 for Production well #43-33 issued Nov 2006; SE/4 NW/4, Section 33, T18N R20E; Production well location in the Steamboat Hot Springs area, Washoe County, Nevada; PTD 1000'; Spud Sep 1, 2007 with GeoDrill rig #1; Completed 9/24/2007; TESTING.
- ◆ Galena III power plant is under construction. Pipelines and new wells are being drilling to supply this plant, estimated to have a capacity of 20 MW
- ◆ ORMAT Nevada Inc. "Production well 14A-33" (originally permitted as 33-33, well name change); State permit #669 issued Nov 3, 2006; API #27-031-90244; SE/4 NW/4, Section 33, T18N R20E; PTD 1000'; Industrial production well location in Steamboat Springs, Washoe County, Nevada; Spud Nov 26, 2007 with GeoDrill rig #1; TESTING.
- ◆ Ormat Nevada Inc. "Production well 12-33"; State permit #718 issued Oct 2007; API #27-031-90248; SW/4 NW/4, Section 33, T18N R20E; PTD 1000'; Industrial production well location in Steamboat Springs, Washoe County, Nevada; NEW LOCATION.

**Steamboat Hills Power Plant (1988) 14.5 MW S5, 6, T17N R20E**  
**Galena II (2007) 13.5 MW S5, 6 T17N R20E**  
**Steamboat Hills, LP/ORMAT Nevada Inc.**

- ◆ Steamboat Hills Flash Plant is currently undergoing repowering and new construction. A binary bottoming cycle is now on-line and will use the heat from the flash plant injection steam to produce approximately 6 MW.
- ◆ A new binary plant, Galena II, is newly under construction and has a nameplate capacity of 13.5 MW. New wells have been drilled and a new pipeline delivery system is under construction.
- ◆ Steamboat Hills, LP: Permit #576 issued Mar 28, 2005, API #27-031-90230 for Industrial Production Well 66-32 located in NW/4 SW/4 Section 32, T18N R20E. Proposed depth is 1500'; Permitted location.
- ◆ ORMAT NEVADA, INC. (Steamboat Hills LP): State Permit #561, API 27-031-90227 for Industrial Production Well #83B-6 issued Sep 10, 2004; NE/4 NE/4; Section 6, T17N R20E; Steamboat Springs, Washoe County, Nevada; PTD 3200'; to serve as production well for existing power plant. Spud May 5, 2007 with DHS rig #14; TD June 13, 2007; COMPLETED AND TESTING.

**Stillwater Power Plant (1989) 21.0 MW S1, T19N R30E**  
**Enel - AMP Resources (Stillwater) LLC**

- ◆ Enel Stillwater LLC State Permit #705 issued July 2007 for Injection Well #17-36; API #27-001-90338; Located in the Stillwater Geothermal Project Area; SW/4 SW/4 of Section 36, T20N R30E, Churchill County, Nevada. The proposed depth of the well is 1400'. Permitted location.
- ◆ Enel Stillwater LLC State Permit #706 issued July 2007 for Injection Well #26-7; API #27-001-90339; Located in the Stillwater Geothermal Project Area; SW/4 SW/4, Section 7, T19N R31E, Churchill County, Nevada. The proposed depth of the well is 1400'; Spud Oct 30, 2007, Barbour rig #43; Completed Nov 15, 2007.
- ◆ Enel Stillwater LLC State Permit #707 issued July 2007 for Injection Well #63-7; API #27-001-90340; Located in the Stillwater Geothermal Project Area; SW/4 NE/4, Section 7, T19N R31E, Churchill County, Nevada. The proposed depth of the well is 1400'. Spud Oct 30, 2007, Barbour rig #43; Completed Nov 15, 2007.
- ◆ Nov 16, 2007 Lahontan Valley News - Enel Stillwater, LLC receives Special Use Permit from Churchill County - Enel Stillwater received the special use permit from Churchill County planning Commission to construct the proposed Stillwater II power plant. One condition of approval is a monitoring program of the wells, to be reviewed annually - <http://www.lahontanvalleynews.com/article/20071116/News/11160046>
- ◆ June 13, 2007 – ENEL Salt Wells, LLC Approved Project Area Permit for Salt Wells project, NDOM Permit # 698. Permit includes 8 production wells, 8 injection wells, and 10 observation wells in T17N R30E Sections 23, 24, 25, 26, 35, and 36 on Federal leases.

- ◆ March 20, 2007 – ENEL, Rome, Italy announced the acquisition of AMP Resources, LLC, which includes 5 geothermal development projects in Nevada, California, and Utah. ENEL North America, Inc. (Andover, Mass) is a subsidiary of ENEL. Amp's geothermal development project areas in Nevada included Stillwater (in operation) and Salt Wells. - <http://www.enel.it/northamerica/boxhp.asp?IdDoc=1500576>
- ◆ May 10, 2006 – PUC Approved a Permit to Construct the Stillwater 2 Geothermal Plant. The PUC approved the permit for a 26MW power plant to be built approximately 15 miles east of Fallon. AMP proposed to build the binary cycle power plant to replace the existing 7MW plant. The new plant is scheduled to be online by the end of 2007. A long-term power purchase agreement will be filed with the PUC for approval - <http://pucweb1.state.nv.us/PUCN/CommissionInfo.aspx?Util=PressReleases>
- ◆ Enel Stillwater LLC State Permit #631 issued December 5, 2005 for Injection Well 11-1; API #27-031-90322. Located in the NW/4 NW/4 of Section 1 T19N R31E, Churchill County. The proposed depth of well is 2100'. Stillwater Geothermal Project Area Permit #579. Spud Sep 6, 2007 with Barbour Corp rig #43; Completed Nov 20, 2007.

<b>Soda Lake No. 1 Power Plant (1987)</b>	<b>5.1 MW</b>	<b>S33, T20N R28E</b>
<b>Soda Lake No. 2 Power Plant (1991)</b>	<b>21.0 MW</b>	
<b>Constellation Operating Services</b>		

<b>Wabuska Power Plant (1984)</b>	<b>2.2 MW</b>	<b>S15, 16, T15N R25E</b>
<b>Homestretch Geothermal LLC</b>		

## GEOTHERMAL PRODUCTION FOR 2006

Plant		Output Gross MWH	Output (Sales) MWH	Nameplate Capacity
<b>Beowawe</b>		132,747	113,935	16.6
<b>Brady</b>		179,464	119,842	26.1
<b>Dixie</b>		550,140	500,449	62
<b>Empire</b>		35,571	25,604	4.8
<b>Soda Lake</b>				
	Soda Lake 1	27,075	18,328	5.1
	Soda Lake 2	73,756	49,552	21
<b>AMP Resources</b>				
	Stillwater	84,727	49,352	21
<b>ORMAT</b>				
	SBI	24,179	14,067	8.4
	SBIA	13,534	11,676	2.4
	SBII	97,883	59,007	23.9
	SBIII	141,003	94,582	23.9
<b>Homestretch</b>				
	Wabuska I & II	8,234	5,120	2.2
<b>Brady Power Partners</b>				
	Desert Peak	20,786	17,404	12.5
	Desert Peak II	43,954	35,279	23
<b>ORMAT</b>				
	Steamboat Hills	71,906	63,265	14.5
<b>ORMAT</b>				
	Galena	178,626	155,536	30
<b>TOTALS</b>		<b>1,683,585</b>	<b>1,332,999</b>	<b>297.4</b>

## DIRECT USE OPERATIONS

### Empire Group LLC; Empire, Washoe County, Nevada

- ◆ This drying facility is currently not in operation.

### Gilroy Foods, A ConAgra Food Ingredients Company; Onion Dehydration Plant; Fernley, Nevada

<http://www.conagrafoodingredients.com/products/gilroyfoods.jsp>

- ◆ Seasonal onion dehydration processing operations May – October annually.

## OTHER ACTIVE AREAS

### Gerlach KGRA, T32-33N R23-24E, Washoe County

### Pyramid Lake Paiute Reservation, T27-28N R19-20E, Washoe County

### Salt Wells KGRA, T16-17N R30-31E, Churchill County

- ◆ Enel Salt Wells "Injection Well #45-23"; State Permit #725 issued Oct 2007; API #27-001-90342; NE/4 SW/4, Sec 23, T17N R30E; PTD 1500'; Industrial injection well in the Salt Wells Geothermal project area permit #698, Churchill County, Nevada; NEW LOCATION.
- ◆ Enel Salt Wells "Injection Well #56-23"; State Permit #726 issued Oct 2007; API #27-001-90343; NW/4 SE/4, Sec 23, T17N R30E; PTD 1500'; Industrial injection well in the Salt Wells Geothermal project area permit #698, Churchill County, Nevada; NEW LOCATION.
- ◆ Enel Salt Wells "Production Well #14-25"; State Permit #727 issued Oct 2007; API #27-001-90344; SW/4 NW/4, Sec 25, T17N R30E; PTD 1500'; Industrial production well in the Salt Wells Geothermal project area permit #698, Churchill County, Nevada; NEW LOCATION.
- ◆ Enel Salt Wells "Production Well #86-26"; State Permit #728 issued Oct 2007; API #27-001-90345; NE/4 SE/4, Sec 26, T17N R30E; PTD 1500'; Industrial production well in the Salt Wells Geothermal project area permit #698, Churchill County, Nevada; NEW LOCATION.
- ◆ Enel Salt Wells "Production Well #46-35"; State Permit #729 issued Oct 2007; API #27-001-90346; NW/4 SE/4, Sec 35, T17N R30E; PTD 1500'; Industrial production well in the Salt Wells Geothermal project area permit #698, Churchill County, Nevada; NEW LOCATION.
- ◆ Enel Salt Wells "Production Well #61-35"; State Permit #730 issued Oct 2007; API #27-001-90347; NW/4 NE/4, Sec 35, T17N R30E; PTD 1500'; Industrial production well in the Salt Wells Geothermal project area permit #698, Churchill County, Nevada; NEW LOCATION.
- ◆ Enel Salt Wells "Production Well #67-35"; State Permit #731 issued Oct 2007; API #27-001-90348; SW/4 SE/4, Sec 35, T17N R30E; PTD 1500'; Industrial production well in the Salt Wells Geothermal project area permit #698, Churchill County, Nevada; NEW LOCATION.
- ◆ Enel Salt Wells "Injection Well #52-36"; State Permit #732 issued Oct 2007; API #27-001-90349; NW/4 NE/4, Sec 36, T17N R30E; PTD 1500'; Industrial injection well in the Salt Wells Geothermal project area permit #698, Churchill County, Nevada; NEW LOCATION.
- ◆ Enel Salt Wells "Injection Well #54-36"; State Permit #733 issued Oct 2007; API #27-001-90350; SE/4 NE/4, Sec 36, T17N R30E; PTD 1500'; Industrial injection well in the Salt Wells Geothermal project area permit #698, Churchill County, Nevada; New location; Spud Nov 22, 2007 Barbour rig #45; Completed Dec 17, 2007.
- ◆ Enel Salt Wells "Injection Well #63-36"; State Permit #734 issued Oct 2007; API #27-001-90351; SW/4 NE/4, Sec 36, T17N R30E; PTD 1500'; Industrial injection well in the Salt Wells Geothermal project area permit #698, Churchill County, Nevada; New location; Spud Dec 18, 2007 Barbour rig #45; DRILLING.
- ◆ Enel Salt Wells "Injection Well #65-36"; State Permit #735 issued Oct 2007; API #27-001-90352; SW/4 SE/4, Sec 36, T17N R30E; PTD 1500'; Industrial injection well in the Salt Wells Geothermal project area permit #698, Churchill County, Nevada; NEW LOCATION.
- ◆ June 13, 2007 – ENEL Salt Wells, LLC Approved Project Area Permit for Salt Wells project, NDOM Permit # 698. Permit includes 8 production wells, 8 injection wells, and 10 observation wells in T17N R30E Sections 23, 24, 25, 26, 35, and 36 on Federal leases.
- ◆ March 20, 2007 – Enel, Rome, Italy announced the acquisition of AMP Resources, LLC, which includes 5 geothermal development projects in Nevada, California, and Utah. Enel North America, Inc. (Andover, Mass) is a subsidiary of Enel. Amp's geothermal development project areas in Nevada included Stillwater (in operation) and Salt Wells. - <http://www.enel.it/northamerica/boxhp.asp?IdDoc=1500576>

### Naval Air Station, Fallon, Nevada, Churchill County, T18N R29E

- ◆ ORMAT Nevada Inc. "Production well #82-36"; State Permit #717 issued Oct 2007; API #27-001-90341; NE/4 NE/4, Sec 36, T18N R29E; PTD 8500'; Industrial production well in the NAS project area near Fallon Nevada;

**Churchill County; New location; Moving in GeoDrill rig #1, will spud soon.**

- ♦ January 24, 2006 - ORMAT Technologies has entered into an agreement with the U. S. Navy to build a geothermal power plant near the Naval Air Station in Fallon. They announced a 50-year contract to develop geothermal energy on the NAS property. Following an exploratory drilling program, an estimated 30-megawatt power plant will be constructed near the southeast border of the base. Energy from the plant would be sold through a power purchase agreement with Sierra Pacific Power Company. The Navy will receive 5 percent of gross income from sales for the first 20 years, and 15 percent thereafter. See Lahontan Valley News article; Jan 24, 2006 – by Burke Wasson, [bwasson@lahontanvalleynews.com](mailto:bwasson@lahontanvalleynews.com) - <http://www.lahontanvalleynews.com/article/20060124/News/101240027>

**Carson Lake Geothermal Area, T18N R30E, Churchill County**

- ♦ February 8, 2007 – The Nevada PUC has approved the renewable energy contract for Ormat Nevada's 24 MW Carson Lake geothermal power project. The 20-year PPA between Ormat and Nevada Power Company for the sale of energy from the Carson Lake power plant to be built in Churchill County is projected to be online late 2009.

**Carson Lake Geothermal Area, T17N R30E, Churchill County**

- ♦ Carson Lake Basin Project, LLC (Vulcan) "TG Well 17-16"; State permit #685 issued Feb 2007; API #27-001-90332; SW/4 SW/4 Section 16, T17N R30E; PTD 2500'; Gradient/Observation well, Carson Lake, Churchill Co, Nevada; SPUD Nov 2007; Rocket Drill Co rig #2; Will re-commence drilling early January 2008.
- ♦ Carson Lake Basin Project, LLC (Vulcan); Geothermal Project Area Permit #704 issued July 26, 2007; Geothermal project allowing 14 production wells @ TD 10,000', 7 injection wells @ TD 10,000', 7 observation wells @ TD 5000'; in Sections 1-4, 9, 10, 14-17, 20, 21, 28, 32, 33 T17N R30E and Sections 4, 9, 11 T16N R30E, Carson Lake, Churchill County, Nevada; Geothermal Project Area permit.
- ♦ Carson Lake Basin Project, LLC (Vulcan) "Observation Well 86-15"; State permit #683 issued Feb 2007; API #27-001-90330; Located in the NE/4 SE/4 of Section 15, T17N R30E, Churchill County, Nevada. Projected total depth of the well is 2500'; SPUD July 10, 2007 with Boom Drilling rig; SPUD July 10, 2007 with Boom Drilling rig; Moved in Rocket Drill Co rig #2 to deepen well; Completed 9/17/2007; Using for observation well.
- ♦ Carson Lake Basin Project, Bend Oregon (Vulcan Power); Ten observation well locations permitted Feb 16, 2007; T17N R30E, Churchill County, NV; PTD 2500'. – <http://www.vulcanpower.com/>

Revised well numbers:

Obs Well 51-20	Permit #678	API #27-001-90325	NE/4 NW/4 Section 20
Obs Well 35-11	Permit #679	API #27-001-90326	SW/4 NW/4 Section 11
Obs Well 58-9	Permit #680	API #27-001-90327	NW/4 NE/4 Section 16
Obs Well 56-14	Permit #681	API #27-001-90328	NW/4 SE/4 Section 14
Obs Well 34-33	Permit #682	API #27-001-90329	SE/4 NW/4 Section 33
Obs Well 86-15	Permit #683	API #27-001-90330	NE/4 SE/4 Section 15
Obs Well 24-21	Permit #684	API #27-001-90331	SW/4 NW/4 Section 21
Obs Well 17-16	Permit #685	API #27-001-90332	SW/4 SW/4 Section 16
Obs Well 47-11	Permit #686	API #27-001-90333	NW/4 NE/4 Section 14
Obs Well 62-15	Permit #687	API #27-001-90334	NW/4 NE/4 Section 15

**Grass Valley Geothermal Area, T24N R47E, Lander County**

- ♦ May 24, 2007 – Ormat announced that it has signed a 20-year Power Purchase Agreement with Nevada Power Company for the sale of energy to be produced from the Grass Valley Geothermal Power Plant to be built in Lander County, northern Nevada. The plant is expected to supply between 18-30 megawatts and to be online by late 2010. – <http://www.ormat.com/news-and-events/new-releases/>.
- ♦ Ormat Nevada Inc; Permit #661 issued May 18, 2006 for Observation well #66-21; API #27-015-90029; NW/4 SE/4 Section 21, T24N R47E; Grass Valley, Lander County, Nevada; PTD 3000'; Permitted location.
- ♦ Ormat Nevada Inc; Permit #659 issued May 18, 2006 for Observation well #11-15; API #27-015-90027; NW/4 NW/4 Section 15, T24N R47E; Grass Valley, Lander County, Nevada; PTD 3000'; Permitted location.

**Fireball Ridge Geothermal Area, T23-24N R225-26N, Churchill County**

- ♦ Ormat Nevada Inc. Geothermal Project Area Permit #743 issued Nov 20, 2007; Geothermal project allowing 7 production wells @ TD 7000'; 3 injection wells @ TD 7000'; and 5 observation wells @ TD 2000' in Sections 25,36 of T24N R25E; Sections 19,21,30,29,28,27,31,32 of T24N R26E and Sections 5,6 of T23N R26E, Fireball Ridge, Churchill County, Nevada; NEW PROJECT AREA PERMIT.

### **Warm Springs Geothermal Area, T23N R20E, Washoe County**

- ◆ Newcore Energy LLC "Observation Well Marshall #1"; State permit #744 issued Nov 30, 2007; API #27-031-90251; Observation well located NW/4 NE/4 of Section 22, T23N R20E; Warm Springs geothermal prospect area, Washoe County, Nevada; PTD 3000'; New location, moving in Great Valley Rig 2000; DRILLING.

### **Hot Sulfur Springs (Tuscarora), T41N R52E, Elko County**

- ◆ TG Power, LLC "Production well #72-17"; State Permit #716 issued September 24, 2007; API #27-007-90034; NE/4 NW/4 Section 17, T41N R52E; Tuscarora – Hot Sulfur Springs project area permit 673; PTD 5000'; Elko County, Nevada; TESTING.
- ◆ TG Power, LLC, Houston, TX; Permit #689 issued March 20, 2007 for Industrial Production well #57-8; API #27-007-90032; NW/4 SE/4 Section 8, T41N R52E; Tuscarora – Hot Sulfur Springs, Elko County, Nevada; PTD 4000'; SPUD Aug 21, 2007 with LAGS Exploration rig; Suspended operations 10/3/2007; TESTING.
- ◆ [http://tgpowerllc.com/Hot\\_Sulphur\\_Springs.html](http://tgpowerllc.com/Hot_Sulphur_Springs.html)
- ◆ TG Power, LLC, Houston, TX; Permit #673 issued Nov 13, 2006; Geothermal project area encompassing Sections 4-9, 16-18 in T41N R52E and Sections 32-33 in T42N R52E, Tuscarora – Sulfur Hot Springs, Elko County; The permit allows 12 production wells with estimated depth of 4000', 6 injection wells with estimated depth of 4000', and 6 observation wells with estimated depth of 4000'. The wells in the project area will supply a 48 MW geothermal binary power plant.

### **Rye Patch/Humboldt House KGRA, T31-32N R32-34E, Pershing County**

- ◆ **Rye Patch Power Plant, 12 MW, 90% complete**

### **Black Warrior Peak, T23N R25E, Washoe County**

### **Blue Mountain Geothermal Area, T36N R34E, Humboldt County**

- ◆ Feb 8, 2007 – Nevada PUC approved the 20-year Power Purchase Agreement between Nevada Power Company and Nevada Geothermal Power Company for up to 35 MW of geothermal power to be produced from a new power plant to be constructed within the Blue Mountain project area. The plant is projected to be online in 2009. The "Faulkner 1 Power Plant" will be a zero-emission, water-cooled, binary geothermal plant. - <http://www.nevadageothermal.com/s/Home.asp>
- ◆ Nevada Geothermal Power Company; State Permit #639 issued March 24, 2006 for Industrial Production well #34-23; API #27-013-90051; Located in SE/ NW/4, Section 23, T36N R34E; Proposed total depth is 6000'; Blue Mountain geothermal project area 605PA, Humboldt County, Nevada; Conductor set 6/5/06 using Mighty Mole auger rig. CORRECTED WELL NUMBER.
- ◆ Nevada Geothermal Power Company; State Permit #640 issued March 24, 2006 for Industrial Production well #66-14; API #27-013-90052; Located in NW/ SE/4, Section 14, T36N R34E; Proposed total depth is 6000'; Blue Mountain geothermal project area 605PA, Humboldt County, Nevada; Conductor set 7/5/06 using Mighty Mole auger rig. Surface casing set 7/25/06 with WDC rig #161.
- ◆ Nevada Geothermal Power Company; State Permit #635 issued February 24, 2006 for Industrial Production well #23-14; API #27-013-90048; Located 3200' north of well #38-14 in SW/ NW/4, Section 14, T36N R34E; Proposed total depth is 6000'; Blue Mountain geothermal project area 605PA, Humboldt County, Nevada; SPUD July 23, 2007 with ThermaSource rig #101; Completed 9/13/2007; TESTING.
- ◆ Nevada Geothermal Power Company "Industrial Production well #44-14"; State Permit #636 issued February 24, 2006; API #27-013-90049; NE/4 SE/4, Section 14, T36N R34E; Blue Mountain geothermal project area 605 PA, Humboldt County; PTD 6000'; CHANGED LOCATION (originally permitted as well #26-14 in NW/4 SW/4) NEW LOCATION.
- ◆ Nevada Geothermal Power Company "Industrial Production well #25-14; State Permit #637 issued February 24, 2006; API #27-013-90050; NW/4 SW/4, Section 14, T36N R34E; Blue Mountain geothermal project area 605 PA, Humboldt County; PTD 6000'; CHANGED LOCATION (originally permitted as well #28-14 in SW/4 SW/4); Spud 11/2007, ThermaSource rig #101; DRILLING.
- ◆ Nevada Geothermal Power Company; Permit #619 issued Sep 22, 2005 for Industrial Production well #63-14; API #27-013-90047; Located in SW/4 NE/4, Section 14, T36N R34E; Proposed total depth is 2000'; Production well location in the Blue Mountain geothermal project area; 605PA; Humboldt County, Nevada; Conductor set 7-11-06 using Mighty Mole auger rig.
- ◆ Nevada Geothermal Power Company; Project Area Permit 605 issued July 25, 2005; Allows for a total of 8 production wells with estimated depths of 6,000' and 2000'. The project area encompasses Sections 1, 10-15, 22-26, T36N R34E.

### **Buffalo Valley Geothermal Area, T29N, R41E, Lander County**

- ♦ ORMAT NEVADA, INC. Observation well #31-26; State Permit #665 issued May 18, 2006; API #27-015-90033; NE/4 NW/4 Section 26, T29N R41E, Buffalo Valley, Lander County, Nevada; PTD 3000'; Spud Dec 2007 GeoDrill rig #2; DRILLING.
- ♦ Ormat Nevada, Inc.; Geothermal Unit Agreement application filed with the BLM, April 18, 2007; SN 083484X T29N R41E, Sections 13,14,22-27,34,35; 6400 acres, Buffalo Valley, Lander County, Nevada, Case pending.
- ♦ Ormat Nevada, Inc; State Permit #694 issued April 26, 2007 Thermal Gradient well #32-25; Located in SE/4 NW/4 of section 25, T29N R41E; Buffalo Valley, Lander County, Nevada; PTD 1000'; New permitted location.
- ♦ February 8, 2007 – Nevada PUC approved the renewable energy contract for Ormat Nevada's 24 MW Buffalo Valley project. The 20-year Power Purchase Agreement between Ormat and Nevada Power Company is for the sale of energy from the Buffalo Valley geothermal power plant to be built in Lander County and expected to be online in 2009.
- ♦ August 3, 2006 – Ormat announced that they have signed a 20-year power purchase agreement with Nevada Power Company for the sale of energy to be produced from the Buffalo Valley geothermal power plant to be built in Lander County. The Buffalo Valley power plant is projected to be online late 2009.
- ♦ Geothermal geophysical exploration application filed by Ormat Nevada with the BLM 7/14/2006, T29N R41E, Sections 22,24-27,34,35 Buffalo Valley, Lander County, Serial #82317.
- ♦ Ormat Nevada, Inc; Permit #664 issued May 18, 2006 for Observation well #17-25; API #27-015-90032; SW/4 SW/4 Section 25, T29N R41E, Buffalo Valley, Lander County, Nevada; PTD 3000'; Permitted location.
- ♦ Ormat Nevada, Inc; Permit #662 issued May 18, 2006 for Observation well #27-22; API #27-015-90030; SW/4 SW/4 Section 22, T29N R41E, Buffalo Valley, Lander County, Nevada; PTD 3000'; Permitted location
- ♦ Ormat Nevada, Inc; Permit #663 issued May 18, 2006 for Observation well #86-24; API #27-015-90031; NE/4 SE/4 Section 24, T29N R41E, Buffalo Valley, Lander County, Nevada; PTD 3000'; Permitted location.

### **Pumpnickel Valley Geothermal Area, T33N R40E, Humboldt County**

- ♦ Nevada Geothermal Power Co. " TG-6 Well"; State Permit #737 issued Nov 14, 2007; API #27-013-90053; SE/4 SE/4, Section 33, T33N R40E; PTD 1000'; Temperature gradient well in Pumpnickel Valley, Humboldt Co, Nevada; NEW LOCATION.
- ♦ Nevada Geothermal Power Co. " TG-7 Well"; State Permit #738 issued Nov 14, 2007; API #27-013-90054; SW/4 NW/4, Section 3, T33N R40E; PTD 1000'; Temperature gradient well in Pumpnickel Valley, Humboldt Co, Nevada; NEW LOCATION.
- ♦ Nevada Geothermal Power Co. " TG-8 Well"; State Permit #739 issued Nov 14, 2007; API #27-013-90055; NE/4 NE/4, Section 9, T33N R40E; PTD 1000'; Temperature gradient well in Pumpnickel Valley, Humboldt Co, Nevada; NEW LOCATION.
- ♦ Nevada Geothermal Power Co. " TG-9 Well"; State Permit #740 issued Nov 14, 2007; API #27-013-90056; SW/4 NE/4, Section 9, T33N R40E; PTD 1000'; Temperature gradient well in Pumpnickel Valley, Humboldt Co, Nevada; NEW LOCATION.
- ♦ Nevada Geothermal Power Co. " TG-10 Well"; State Permit #741 issued Nov 14, 2007; API #27-013-90057; SE/4 SW/4, Section 9, T33N R40E; PTD 1000'; Temperature gradient well in Pumpnickel Valley, Humboldt Co, Nevada; NEW LOCATION.
- ♦ Nevada Geothermal Power Co. " TG-5 Well"; State Permit #742 issued Nov 14, 2007; API #27-013-90058; NW/4 NW/4, Section 9, T33N R40E; PTD 1000'; Temperature gradient well in Pumpnickel Valley, Humboldt Co, Nevada; NEW LOCATION.
- ♦ Nevada Geothermal Power to begin drilling in Pumpnickel Geothermal Area - NGP announced in January that 3 temperature gradient holes and a seismic survey are planned at the Pumpnickel Geothermal area. Sierra Geothermal Power will fund the exploration to acquire a 50% interest in the project.
- ♦ Nevada Geothermal Power Company; Permit #608 issued August 8, 2005 for Thermal Gradient Well PVTG-N, API #27-031-90041, Located in NW/4 SW/4 Section 4, T33N R40E, Humboldt County; Proposed total depth is 1640'; This location is on fee land.

### **Hazen, Nevada, KGRA T20-21N R25-26E, Churchill and Lyon Counties**

- ♦ Geothermal Rail Industrial Development LLC; Permit #638 issued March 13, 2006, API #27-019-90021 for Industrial Production Well Hazen 11-19, Location NW/4 NW/4, Section 19, T20N R26E, Lyon County; Proposed total depth 1550'; Permitted location.
- ♦ See website - <http://www.gridusa.biz/>

## **Emigrant Geothermal Project, T1S R36E, Esmeralda County**

### **Jersey Valley Geothermal Area; T27N, R40E, Pershing County**

- ◆ Ormat Nevada Inc. "Observation well 18-27"; State permit #656 (changed from 699) issued July 11, 2007; API 27-027-90071; Observation well location SW/4 SW/4, Section 27, T27N R40E; PTD 3000'; Jersey Valley geothermal project area, Pershing Co; Spud Sep 4, 2007 with GeoDrill rig #2; Completed 10/10/07.
- ◆ Ormat Nevada Inc. "Observation well #33-33"; State Permit #658 issued May 18, 2006; API #27-027-90070; SE/4 NW/4 Section 33, T27N R40E, Jersey Valley, Pershing County, Nevada; PTD 3000'; Drilled with GeoDrill rig #2 11/2007; TESTING.
- ◆ Ormat Nevada Inc. "Observation well #81-28"; State Permit #655 issued May 18, 2006; API #27-027-90067; NE/4 NE/4 Section 28, T27N R40E, Jersey Valley, Pershing County, Nevada; PTD 3000'; Spud Dec 2007 DHS rig #14; TESTING.
- ◆ Ormat Nevada Inc. State Permit #703, API #27-027-90075 for Production well 44-28 issued July 11, 2007; Located in the SE/4 NW/4 of Section 28, T27N R40E; PTD 7000'; Jersey Valley, Pershing County, Nevada; Permitted location.
- ◆ Ormat Nevada Inc. State Permit #702, API #27-027-90074 for Production well 81-28 issued July 11, 2007; Located in the NE/4 NE/4 of Section 28, T27N R40E; PTD 7000'; Jersey Valley, Pershing County, Nevada; Permitted location.
- ◆ Ormat Nevada Inc. State Permit #701, API #27-027-90073 for Production well 86-29 issued July 11, 2007; Located in the NE/4 SE/4 of Section 29, T27N R40E; PTD 7000'; Jersey Valley, Pershing County, Nevada; Permitted location.
- ◆ Ormat Nevada Inc. State Permit #700, API #27-027-90072 for Production well 33-33 issued July 11, 2007; Located in the SE/4 NW/4 of Section 33, T27N R40E; PTD 7000'; Jersey Valley, Pershing County, Nevada; Permitted location.
- ◆ Ormat Nevada, Inc.; Jersey Valley Geothermal Exploration Project, T27N R40E, Pershing County, Nevada, has been approved by the BLM. The project proposed by Ormat Nevada includes up to 5 well pads and drilling 3-5 observation wells and 3-5 production wells. The DR/FONSI was issued May 24, 2007, [http://www.blm.gov/nv/st/en/fo/wfo/blm\\_information/nepa.2.html](http://www.blm.gov/nv/st/en/fo/wfo/blm_information/nepa.2.html)
- ◆ Ormat Nevada, Inc.; Geothermal Unit Agreement application approved by the BLM, May 10, 2007; SN 083483 T27N R40E, Sections 15,16,21,22,27; 7190 acres, Jersey Valley, Pershing County, Nevada; Authorized.
- ◆ Ormat Nevada, Inc.; Geothermal Unit Agreement application filed with the BLM, March 27, 2007; SN 083483X T27N R40E, Sections 3-5,15,16,20-22,27,32-34; 7190 acres, Jersey Valley, Pershing County, Case pending.
- ◆ Ormat Nevada, Inc; Permit #654 issued May 18, 2006 for Observation well #44-28; API #27-027-90066; SE/4 NW/4 Section 28, T27N R40E, Jersey Valley, Pershing County, Nevada; PTD 3000'; Permitted location.
- ◆ Ormat Nevada, Inc; Permit #657 issued May 18, 2006 for Observation well #86-29; API #27-027-90069; NE/4 SE/4 Section 29, T27N R40E, Jersey Valley, Pershing County, Nevada; PTD 3000'; Permitted location.

### **Spencer Hot Springs Area; T17N R45E, Lander County**

### **Ruby Valley/Ruby Lake, Sulfur Hot Springs, T31N R59E, Elko County**

### **Reese River Geothermal Area; T23-24N R43E, Lander County**

- ◆ Sierra Geothermal Power "Observation Well #13A-4"; State Permit #722 issued Oct 18, 2007; API #27-015-90041; Observation well location SW/4 NW/4 Section 4, T24N R43E, PTD 6000'; Reese River geothermal prospect area, Lander County, Nevada; NEW LOCATION.
- ◆ Sierra Geothermal Power "Observation Well #25A-4"; State Permit #723 issued Oct 18, 2007; API #27-015-90042; Observation well location NW/4 SW/4 Section 4, T24N R43E, PTD 6000'; Reese River geothermal prospect area, Lander County, Nevada; NEW LOCATION.
- ◆ Sierra Geothermal Power; Permit #711 issued September 11, 2007 for TG Well #13-4; API #27-015-90040; SE/4 SW/4 Section 33, T24N R43E, Exploratory observation well location in the Reese River geothermal prospect area, Lander County, Nevada; PTD 6000'; Spud with Great Valley rig #2000 on Oct 22, 2007; Drilled to TD 5184'; BHT Nov 23, 2007 was 298°F; Completed Nov 21, 2007; TESTING.
- ◆ Sierra Geothermal Power; Permit #714 issued September 11, 2007 for TG Well #52-4; API #27-015-90039; SW/4 NE/4 Section 4, T23N R43E, Exploratory observation well location in the Reese River geothermal prospect area, Lander County, Nevada; PTD 6000'; Permitted location.
- ◆ Sierra Geothermal Power; Permit #713 issued September 11, 2007 for TG Well #25-4; API #27-015-90038; NW/4 SW/4 Section 4, T23N R43E, Exploratory observation well location in the Reese River geothermal prospect area, Lander County, Nevada; PTD 6000'; Permitted location.

- ◆ Sierra Geothermal Power; Permit #712 issued September 11, 2007 for TG Well #88-5; API #27-015-90037; SE/4 SE/4 Section 5, T23N R43E, Exploratory observation well location in the Reese River geothermal prospect area, Lander County, Nevada; PTD 6000'; Permitted location.
- ◆ Sierra Geothermal Power; Permit #715 issued September 11, 2007 for TG Well #38-33; API #27-015-90036; SW/4 NW/4 Section 4, T23N R43E, Exploratory observation well location in the Reese River geothermal prospect area, Lander County, Nevada; PTD 6000'; Permitted location.

#### **Rock Hill Geothermal Area; T3-4N R36E, Esmeralda County**

- ◆ Ormat Nevada Inc. Geothermal Project Area Permit #724 issued Oct 30, 2007; Geothermal project allowing 7 production wells @ TD 6000'; 3 injection wells @ TD 6000'; and 10 observation wells @ TD 6000' in Sections 2,3,10,11 of T3N R36E, and Sections 27,28,34,35 of T4N R35E, Rock Hill, Esmeralda County, Nevada; NEW PROJECT AREA PERMIT.
- ◆ Ormat Nevada, Inc; Geothermal Geophysical Exploration permit application filed with the BLM April 26, 2007; T3N R36E Sections 2,3,10,11 & T4N R36E Section 27; Rock Hill geothermal area, Esmeralda County, Nevada; Pending.

#### **Big Smoky Valley Geothermal Area; T12-14N R43E, Nye County, Nevada**

- ◆ Truckee Geothermal No. 1 SV-01, LLC, Provo UT (Raser); Industrial Injection Well #37-3; State permit #719 issued Oct 9, 2007, API #27-023-90137; Located in SE/4 SW/4 Section 3, T12N R43E; PTD 4000'; Big Smoky Valley, Nye County, Nevada; NEW LOCATION.
- ◆ Truckee Geothermal No. 1 SV-01, LLC, Provo UT (Raser); Industrial Injection Well #23-3; State permit #720 issued Oct 9, 2007, API #27-023-90138; Located in SW/4 NW/4 Section 3, T12N R43E; PTD 4000'; Big Smoky Valley, Nye County, Nevada; NEW LOCATION.
- ◆ Trail Canyon Geothermal No 1 SV-02, LLC (Raser); Geothermal Project Area Permit #709 issued August 28, 2007; Geothermal project allowing 12 production wells @ TD 2500', 8 injection wells @ TD 2500', and 4 observation wells @ TD 4000' in Sections 27, 28, 32-34 T14N R43E, Big Smoky Valley, Nye County, Nevada. The project is for the purpose of supplying geothermal fluids for two 10 MW binary power plants. This project area has been enlarged to include Section 4 T13N R43E.
- ◆ June 12, 2007 – PUC of Nevada, Notice of Application filed by Truckee Geothermal No. 1 SV-01, LLC requesting a Permit to Construct a new 10 MW renewable energy geothermal power plant and associated facilities to be located in Big Smoky Valley, Nye County, Nevada. Written statements of position on the project must be submitted by July 5, 2007. - <http://pucweb1.state.nv.us/PUCN/DktInfo.aspx?Util=Renewable> (See Docket 07-06009)
- ◆ Truckee Geothermal No. 1 SV-01, LLC, Provo UT (Raser); State permit #695, API #27-023-90134 issued May 15, 2007 for Industrial Production Well #54-09 located in SW/4 NE/4 Section 9, T12N R43E; PTD 4000'; Big Smoky Valley, Nye County, Nevada; New permitted location.
- ◆ Truckee Geothermal No. 1 SV-01, LLC, Provo UT (Raser); State permit #696, API #27-023-90135 issued May 15, 2007 for Industrial Production Well #68-04 located in SW/4 SE/4 Section 4, T12N R43E; PTD 4000'; Big Smoky Valley, Nye County, Nevada; Spud Jul 11, 2007 with Layne Drilling rig; Completed 9/29/2007; TESTING.
- ◆ Truckee Geothermal No. 1 SV-01, LLC, Provo UT (Raser); State permit #697, API #27-023-90136 issued May 15, 2007 for Industrial Production Well #68-09 located in SW/4 SE/4 Section 9, T12N R43E; PTD 4000'; Big Smoky Valley, Nye County, Nevada; New permitted location.
- ◆ Truckee Geothermal No. 1 SV-01. LLC, Provo UT (Raser); Geothermal Project Area Permit #692 issued April 24, 2007; Geothermal project allowing 11 production wells @ TD 2500', 8 injection wells @ TD 2500', and 4 observation wells @ TD 4000' in Sections 2-4, 8-10, 16 & 17 T12N R43E and Sections 27,28,33 & 34 in T13N R43E. The project is for the development of two 10 MW geothermal power plants in Big Smoky Valley, Nye County Nevada. - <http://www.rasertech.com/geothermal.html>
- ◆ Raser Technologies announced that they have secured geothermal rights to Nevada properties owned by Truckee River Ranches, LLC, north of Las Vegas, Nevada. – <http://www.rasertech.com/news/scripts/full-news.php?1167851580>

#### **Recent BLM Geothermal Lease Activity:**

For more information on BLM leases in Nevada, see the website: <http://www.blm.gov/lr2000>

Call (775) 861-6500 for information.

## **Bureau of Land Management Geothermal Lease Sale – Reno Nevada**

- ◆ A competitive geothermal lease sale is tentatively scheduled for July 15, 2008. The Nevada State Office is accepting nominations for a competitive geothermal lease sale tentatively scheduled for July 15, 2008. Nominations must be received by Feb 29, 2008 along with a non-refundable filing fee of \$100/nomination plus \$.10/acre. Sale notices, results and forms will be posted at - [http://www.blm.gov/nv/st/en/prog/minerals/leasable\\_minerals/geothermal0/ggeothermal\\_leasing.html](http://www.blm.gov/nv/st/en/prog/minerals/leasable_minerals/geothermal0/ggeothermal_leasing.html)
- ◆ New BLM Geothermal Rule Effective June 1, 2007 – [http://www.blm.gov/style/medialib/blm/wo/Communications\\_Directorate/regulations.Par.94775.File.dat/E7-7991.pdf](http://www.blm.gov/style/medialib/blm/wo/Communications_Directorate/regulations.Par.94775.File.dat/E7-7991.pdf)
- ◆ Geothermal Programmatic EIS project website – [http://www.blm.gov/wo/st/en/prog/energy/geothermal/geothermal\\_nationwide.html](http://www.blm.gov/wo/st/en/prog/energy/geothermal/geothermal_nationwide.html)
- ◆ “Western Geothermal Gazette” – [http://www.blm.gov/geothermal\\_eis](http://www.blm.gov/geothermal_eis)
- ◆ Reno Nevada (California & Nevada Combined) - A competitive geothermal lease sale was held August 14, 2007 in Reno, Nevada. All parcels offered were sold at the auction. There were 43 parcels in Nevada and 6 in California. A record high bid of \$11,000/acre was offered by Binkley Geothermal of Santa Monica for a 470 acre parcel in the Geysers, CA. The second highest bid for a parcel in California was \$420/acre.  
The 43 parcels in Nevada brought almost \$11.7 million. The highest total bid and highest bid per acre was from Ormat (Reno) of \$510/acre for 5,120 acres in T20N R45E, Lander County. Silver State Geothermal, Santa Monica, paid \$1,125,600 for parcel #34, 3752 acres in T11N R43E, Nye County (\$300/acre) and \$782,720 for parcel #35, 2445 acres in the same area (\$320/acre). Other parcels went for anywhere from \$3/acre to \$200/acre. Bidders at the sale included Kodali (Santa Rosa), Kingzett (Nevada), Sierra Geothermal (WA), Miller (MD), Montara Energy (CA), and Raser (UT).
- ◆ UTAH/IDAHO. A combined competitive geothermal lease sale was held on June 20, 2007. Three parcels were sold in Utah on over 6,000 acres for a total of \$3,685,986. All three parcels are located in the Fishlake National Forest in the Cove Fort-Sulphurdale area. This is the first sale under the new regulations of the Energy Policy Act of 2005. The highest bid was from ENEL Cove Fort II, LLC, located in Andover, MA at \$850 per acre on parcel number one for a total of \$2,196,586. Bids ranged from \$20 to \$850 per acre. All bonus bid, rental and royalty monies collected are shared equally with the State of Utah.  
Idaho offered five parcels, totaling 8,904 acres, in the Utah sale. The highest bid for an Idaho parcel was from Agua Caliente LLC, located in Englewood, CO at \$875 per acre for a total sale of \$2,033,016. Bids on these parcels ranged from \$130 to \$875. Total revenue from the Idaho Parcels was \$5,726,208.

## **OTHER NEWS**

### **Nevada Commission on Mineral Resources**

- ◆ John H. Snow has been appointed Commissioner of Geothermal Resources. He joins Eugene Kozlowski, Dennis Bryan, Richard DeLong, Fred Gibson, Jr., John Mudge and Ron Parrott on the Nevada Commission on Mineral Resources.

### **BLM Nevada News**

#### **BLM Mojave-Southern Great Basin Resource Advisory Council Meeting -**

“The Bureau of Land Management (BLM) will meet with the Mojave-Southern Great Basin Resource Advisory Council (RAC) on Jan. 10 and 11, at 8 a.m., at the BLM Las Vegas Field Office, 4701 N. Torrey Pines Drive, Las Vegas, NV. The RAC advises and makes recommendations to the BLM on public land management. Discussion items will include, but are not limited to, the Brownsfield Act, mine closures, and renewable energy. The meetings are open to the public and provide the public an opportunity to ask questions of or make comments to the citizen-based council. A public comment period is scheduled at 1 p.m., Thursday, Jan. 10.

The Federal Land Policy and Management Act directs the Secretary of the Interior to involve the public in planning and discussion of issues related to management of BLM-administered public lands. The Mojave-Southern Great Basin RAC is one of three such councils in Nevada that accommodate this community participation directive. Represented on the council are commercial and non commercial users including environmental, livestock, mining, Native American, and wild horse and burro interests and elected officials and state agencies. For more information, contact Chris Hanefeld, BLM Ely Field Office public affairs specialist, at (775) 289-1842, or at [chris\\_hanefeld@nv.blm.gov](mailto:chris_hanefeld@nv.blm.gov).”

### **GOVERNOR GIBBONS ESTABLISHES RENEWABLE ENERGY TRANSMISSION ACCESS ADVISORY**

**COMMITTEE** - To further encourage the production of renewable energy in Nevada, Governor Jim Gibbons has established a Nevada Renewable Energy Transmission Access Advisory Committee (RETAAC) and named its 14

members. The governor created the committee through executive order today. ***“Renewable energy development is good for Nevada and good for the nation,”*** said Governor Gibbons.

The Advisory Committee will report directly to the governor by December 31st, 2007. Its members will work with the Governor’s energy advisor, Dr. Hatice Gecol. The committee includes representation from the key industries and interest groups that will work together to further that development.

The 14 members are:

- Daniel (Dan) Schochet, Vice President, Ormat (**chair**)
- Carolyn Barbash, transmission executive, Sierra Pacific and Nevada Power (**vice chair**)
- Jeneane Harter, president, HiTech Communications (**vice chair**)
- Marion Barritt, director, American Solar Energy Society
- Tim Carlson, president/CEO, Powered by Renewables
- Gilbert Cohen, senior vice president, Acciona Solar Power
- Thomas Fair, renewable energy executive, Nevada Power and Sierra Pacific
- Joseph Greco, vice president, western region, Caithness Energy
- Erin Iping Kuo, director, Next Generation Etak and president of the Board of Directors, Nevada EcoNet
- Dr. Raj Mehta, deputy director, Nevada State Office of Energy
- Christy Morris, Oil, Gas and Geothermal Program manager, Nevada Division of Minerals
- Rebecca Wagner, commissioner, Public Utilities Commission of Nevada
- Gary Wayne, director of strategic projects, SunPower Corporation
- Brian Whalen, transmission planning manager, Nevada Power and Sierra Pacific

RETAAC completed their report on time, December 31, 2007. The report will be presented to the Governor in a meeting in January.

#### 110<sup>th</sup> Congress - <http://thomas.loc.gov>

- ♦ **H.R.6 – Clean Energy Act of 2007**, A bill to reduce our Nation’s dependency on foreign oil by investing in clean, renewable, and alternative energy resources, promoting new emerging energy technologies, developing greater efficiency, and creating a Strategic Energy Efficiency and Renewables Reserve to invest in alternative energy, and for other purposes. Sponsor: Rep Rahall, Nick J., II (WV), introduced 1/12/2007. Related Bill H.RES.66, Latest Major Action: 1/22/2007 Read the second time. Placed on Senate Legislative 6/21/2007 Passed/agreed to in Senate – Passed Senate with an Amendment. Became public law 12/19/2007.

#### Nevada County Land Bills

- ♦ The Nevada Division of Minerals and the Nevada Bureau of Mines and Geology have compiled “Mineral and Energy Potential Posters” to assist in the decisions regarding land withdrawals and future development of these public land areas. The posters are available at the NBMG website at – [www.nbmq.unr.edu/dox/of065.pdf](http://www.nbmq.unr.edu/dox/of065.pdf) (White Pine Co), [www.nbmq.unr.edu/dox/of066.pdf](http://www.nbmq.unr.edu/dox/of066.pdf) (Pershing Co), [www.nbmq.unr.edu/dox/of067.pdf](http://www.nbmq.unr.edu/dox/of067.pdf) (Lyon Co). County officials/contacts: Pershing County, Karen Wesner [kwesner@pershingcounty.net](mailto:kwesner@pershingcounty.net) (775) 273-2342; Lyon County, [www.lyon-county.org](http://www.lyon-county.org) (Commissioner information) (775) 463-6531.
- ♦ The Nevada Division of State Lands, State Land Use Planning Agency, has posted a spreadsheet on their website to update and summarize the status of the Statewide Land Bills. You may contact that office in Carson City (775) 684-2723. The spreadsheet is available online at - <http://www.lands.nv.gov/program/slupa.htm>

#### US Forest Service, Humboldt-Toiyabe National Forest Plan Revision

- ♦ The Nevada Bureau of Mines and Geology has completed the revision of seventeen maps and a composite poster of those maps, which provides energy and mineral potential information with regard to proposed USFS roadless areas in Nevada. Details regarding the maps and their references are on each map. New map editions may be downloaded at: <http://www.nbmq.unr.edu/dox/of0612/of0612.htm> .
- ♦ Assessment of lands on the Humboldt-Toiyabe National Forest that have potential for consideration by Congress for Wilderness designation; an inventory prepared as a part of the revision of the Humboldt-Toiyabe National Forest Land and Resource Management Plan as per Forest Service Manual direction. The Forest Service has identified 1.3 million acres of the Humboldt-Toiyabe Forest as “capable areas” for wilderness consideration. You may access the Forest Plan and timetables for public comment at <http://www.fs.fed.us/r4/htnf/projects/forestplan/>
- ♦ The most recent information available from USFS on the Forest Plan Revision can be found at <http://www.fs.fed.us/r4/htnf/projects/forestplan/> contact Michael Hampton, Planning Staff Officer in Reno (775) 355-5314.

## Geothermal Energy Association –

- ◆ **Geothermal Development and Finance Workshop – Jan 16 8:00 AM – 5:00 PM**  
Bally's Hotel and Casino, Las Vegas, Nevada. - [http://geo-energy.org/workshop/wshop\\_details.asp](http://geo-energy.org/workshop/wshop_details.asp)
- ◆ **Geothermal Resource Development in Nevada – 2006**  
Authored By Dan Fleischmann – <http://www.geo-energy.org/publications/reports.asp>
- ◆ **Survey: U.S. projects underway could double geothermal power output –** <http://geo-energy.org/publications/pressReleases/2006%20US%20Geothermal%20Update%20Release.pdf>  
“A new survey shows a major surge in developing geothermal power projects in the U.S. Some 45 projects are underway that could nearly double US geothermal power output according to the Geothermal Energy Association (GEA) – the industry trade group.” Karl Gawell attributes this activity to a combination of state renewable standards and federal production tax credits. For more information, contact Gawell (202) 454-5264
- ◆ The **2006 Update on US Geothermal Power Production and Development** is available on the GEA website at: <http://www.geo-energy.org/publications/reports/2006%20Update%20on%20US%20Geothermal%20Power%20Production%20and%20Developmentx.pdf>

## From Geothermal Resources Council – <http://www.geothermal.org>

- ◆ **AAPG-SEPM**  
**"Deliver the Conventional; Pursue the Unconventional"**  
**April 20-23, 2008 San Antonio, Texas**  
“For the first time in many years the Society of Economic Paleontologists & Mineralogists and the American Association of Petroleum Geologists will hold a geothermal session at a joint annual meeting. The 2008 SEPM-AAPG Meeting in San Antonio on April 20-23 will host a geothermal resources and development session related to the production of geothermal energy from oil and gas wells.  
The session will be chaired by Dr. David Blackwell of the Geothermal Laboratory at Southern Methodist University, and Dr. Richard Erdlac of Energy America Geothermal.” For more information - <http://www.aapg.org>
- ◆ **33rd Stanford Geothermal Workshop**  
**January 28-30, 2008**  
Stanford, CA. The workshop provides a forum for engineers, scientists, and managers involved in geothermal reservoir studies and developments to discuss projects and ideas. - <http://pangea.stanford.edu/ERE/research/geoth/conference/workshop.html>
- ◆ **Western Governors' Association Annual Meeting -- June 29-July 1, 2008** at Teton Village near Jackson Hole, Wyoming. Governors from across the West come together to discuss climate change policy initiatives and adaptive strategies, improving management of our water resources, the future of energy resources and preserving critical wildlife corridors..<http://www.westgov.org/wga/meetings/am2008/index.htm>

## Public Utilities Commission of Nevada - <http://pucweb1.state.nv.us/PUCN/PUCHome.aspx> <http://pucweb1.state.nv.us/PUCN/CommissionInfo.aspx?Util=PressReleases>

- ◆ November 2007 – New media contact for Nevada PUC  
Sean Sever, Carson City resident, has been named the new Public Information Officer/Consumer Representative. Contact information 775-684-6118; [ssever@puc.state.nv.us](mailto:ssever@puc.state.nv.us)
- ◆ February 8, 2007 – The PUC unanimously approved three renewable energy contracts for 73 megawatts of new geothermal power from projects located in Northern Nevada. The three contracts include Nevada Geothermal Power Company's 25 MW Faulkner 1 Power Plant at the Blue Mountain Project, Ormat Nevada's 24 MW Buffalo Valley project and Ormat's 24 MW Carson Lake project. All three plants are expected to begin commercial operations in 2010. Under the Nevada Renewable Portfolio Standard, Sierra Pacific and Nevada Power are required to generate or purchase 20 percent of renewable energy to supply to their customers by 2015.

## Great Basin Center for Geothermal Energy – <http://www.unr.edu/geothermal/>

- ◆ Contact Information:
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  - ASSOCIATE DIRECTOR – Dr. Allen Gates, Professor and Interim Chair, Mechanical Engineering. Email: [gates@unr.edu](mailto:gates@unr.edu) - Phone (775) 784-6906 Fax (775) 784-1701. Department of Mechanical Engineering, University of Nevada, Reno, MS 256, Reno, NV 89557

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## LINKS: USEFUL DATABASES AND GEOTHERMAL INFORMATION

- ◆ **American Council on Renewable Energy (ACORE)** – <http://www.acore.org/>
- ◆ **American Geological Institute Government Affairs Program** - <http://www.agiweb.org/gap>
- ◆ **Black Rock-High Rock NCA (National Conservation Area) planning website** – <http://www.nv.blm.gov/Winnemucca/>
- ◆ **Bureau of Land Management – Nevada Geothermal Program** - <http://www.nv.blm.gov/minerals/geothermal/index.htm>
- ◆ **California Geothermal Energy Collaborative** - <http://cgec.ucdavis.edu/>. “The overall goal of the California Geothermal Energy Collaborative (CGEC) is to expand the sustainable use of geothermal resources to meet California’s energy needs. The CGEC coordinates activities with the geothermal industry, local, state and federal agencies, and other entities to focus statewide geothermal activities.”
- ◆ **Council of State Governments – TrendsAlert; Renewable Energy and State Economics** – <http://www.csg.org>. Summarizes issues and policy options for state officials, regarding economic potential of renewable energy.
- ◆ **Geo-Heat Center, Oregon Institute of Technology, Klamath Falls, Oregon** - <http://geoheat.oit.edu/>
- ◆ **GeoPowering the West** - <http://www.eere.energy.gov/geothermal/gpw/>
- ◆ **Geothermal Biz.com** - <http://www.geothermal-biz.com/>. *Geothermal biz.com* was created to help the geothermal entrepreneur—companies, small businesses, Native American tribes, homeowners, and individuals—develop geothermal direct use and small power generation projects.
- ◆ **Geothermal Education Office** - <http://www.geothermal.marin.org/>. PURPOSE. To promote public understanding about geothermal resources and its importance in providing clean sustainable energy while protecting our environment. SCOPE. The Geothermal Education Office (GEO) produces and distributes educational materials about geothermal energy to schools, energy/environmental educators, libraries, industry, and the public.
- ◆ **Geothermal Energy Association** - <http://www.geo-energy.org/>
- ◆ **Geothermal Resources Council** - <http://www.geothermal.org>
- ◆ **GeothermEx, Inc** – <http://www.geothermex.com>. Designed to provide information of use to geothermal developers, including downloads of the PIER Geothermal Database of resources in western Nevada and California.
- ◆ **Great Basin Center for Geothermal Energy at the University of Nevada, Reno** - <http://www.unr.edu/geothermal/>
- ◆ **Idaho National Engineering and Environmental Laboratory (INEEL)** - <http://geothermal.inel.gov/>
- ◆ **James & James Science Publishers; Provider of information for energy and environment professionals worldwide; On-line database of renewable energy suppliers** – <http://www.earthscan.co.uk>
- ◆ **National Geothermal Collaborative** – <http://www.geocollaborative.org/>
- ◆ **National Renewable Energy Laboratory (NREL)** - <http://www.nrel.gov/geothermal>. Geothermal Program; Access reports and publications on geothermal energy by Gerald Nix, Charles Kutscher, Barbara Farhar, Keith Gawlik, Brandon Owens, Walter Short.
- ◆ **Nevada Bureau of Mines and Geology, MI-2003, “The Nevada Mineral Industry 2005”** - <http://www.nbmjg.unr.edu/dox/mi/05.pdf>
- ◆ **Nevada Bureau of Mines and Geology, Geothermal Energy** - <http://www.nbmjg.unr.edu/geothermal/gthome.htm>
- ◆ **Nevada Commission on Mineral Resources, Division of Minerals** - [http://minerals.state.nv.us/prog\\_ogg.htm](http://minerals.state.nv.us/prog_ogg.htm)
- ◆ **Nevada State Office of Energy, Renewable Energy & Energy Conservation Task Force, including report by Mary Riddel “Potential Economic Impact of Nevada’s Renewable Energy Resources”** - <http://energy.state.nv.us/taskforce/default.htm>
- ◆ **Nevada Renewable Energy and Energy Conservation Task Force website** - <http://www.nevadarenewables.org/?section=home>
- ◆ **Nevada Public Utilities Commission** - <http://pucweb1.state.nv.us/PUCN/PUCHome.aspx>; <http://pucweb1.state.nv.us/PUCN/Electric/ProposedGen.aspx>
- ◆ **Office of the Governor, Nevada State Energy Office** - <http://energy.state.nv.us/taskforce/default.htm>

- ◆ **Office of Scientific and Technical Information; Subject portals on renewable energy and energy efficient technologies** <http://www.osti.gov/subjectportals/>
- ◆ **Renewable Energy Policy Project & CREST (Center for Renewable Energy & Sustainable Technology) -** <http://www.repp.org/>
- ◆ **Sandia National Laboratories Geothermal Research Dept.** <https://cfwebprod.sandia.gov/cfdocs/GPI/index.cfm>
- ◆ **Sierra Pacific Resources, Renewables RFP -** <http://www.sierrapacificresources.com/company/RFPs/renewablerfp.cfm>
- ◆ **Southern Methodist University Geothermal Laboratory -** <http://www.smu.edu/geothermal/>
- ◆ **Stanford Geothermal Program -** <http://ekofisk.stanford.edu/geotherm.html>
- ◆ **U.S. Department of Agriculture, Rural Development -** <http://www.rurdev.usda.gov>
- ◆ **U.S. Geological Survey (USGS) Geopubs - U.S. Geological Survey Publications for the Western United States -** <http://geopubs.wr.usgs.gov/>

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