

**GEOHERMAL RESOURCE ASSESSMENT**

Resource assessment is a strong focus for GeothermEx, and typically includes conceptual modeling of the geothermal system (based on analyses of exploration, drilling, well logging and well testing data), reserve estimation, field development optimization, power cycle analysis, field management planning, and economic analysis. We have extensive experience with all types of geothermal resources (low-enthalpy, single-phase water, two-phase water, single-phase steam and hypersaline brine) throughout the world. The projects listed below represent nearly 7,000 MW of geothermal generation, using dry steam, flash-steam and binary cycle technology.

<b>FIELD</b>	<b>COUNTRY</b>	<b>MWe ON LINE OR UNDER CONSTRUCTION</b>	<b>YEAR ASSESSED</b>
Bacon Manito, Luzon I.	Philippines	150	1984-1985, 1999; 2004-2005
Batong-Buhay, Luzon I.	Philippines		1983-1984, 1998- 1999
Biliran, Biliran I.	Philippines		1999
Mak-Ban, Luzon I.	Philippines	425	1981, 1995-1997; 2008
Daklan, Luzon I.	Philippines		1982-1983, 1999
Maibarara, Luzon I.	Philippines	25	1982, 1999
Mambucal, Negros I.	Philippines		1999
Mt. Apo, Mindanao I.	Philippines	52	1999; 2004-2005
Mt. Labo, Luzon I.	Philippines		1999
Palimpinon, Negros	Philippines	195	1982-1983; 2004- 2005
Tiwi, Luzon I.	Philippines	330	1983-1985, 1995- 1997; 2008
Tongonan, Leyte I.	Philippines	700	1999; 2004-2005
Takigami, Kyushu I.	Japan	25	1983-1992
Niseko, Hokkaido I.	Japan		1986-1987
Minami Aizu, Honshu I.	Japan		1986-1987
Hakkoda, Honshu I.	Japan		1986-1987
Kokubu, Kyushu I.	Japan		1986-1987

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Okuaizu, Honshu I.	Japan	55	1986-1989; 1993
Uenotai, Honshu I.	Japan	25	1988-2005
Onikobe, Honshu I.	Japan	12.5	1988-1989
Otake, Kyushu I.	Japan	12.5	1992-1993
Wasabizawa, Honshu I.	Japan		1996-2002
Poihipi	New Zealand	55	1996-1997
Tauhara	New Zealand		1997
Wairakei	New Zealand	140	1999; 2001; 2004-2006
Ohaaki	New Zealand	70	1999
Kawerau	New Zealand	110	2005-present
Dieng	Indonesia	140	1983, 1995-1998; 2003, 2004-2005
Patuha	Indonesia	80	1997-1998, 2003, 2004-2005
Darajat	Indonesia	125	1997, 2004-2005
Kamojang	Indonesia	140	1997
Karaha – Telaga Bodas	Indonesia		1997-1998
Cibuni	Indonesia	50	1996; 2008
Wayang Windu	Indonesia	220	1995-1998; 2005; 2007-present
Lihir Island	Papua New Guinea	20	1986-1996
Chingshui	Taiwan, China	3	1979
Tatun	Taiwan, China		1985
Olkaria	Kenya	200	1982, 1997, 2005; 2006-present
Miravalles	Costa Rica	177	1975-1980, 1986-1988, 1990-2006
Rincon de la Vieja	Costa Rica		1999

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Las Pailas	Costa Rica		2002-2005
Tenorio	Costa Rica		1999
Zunil	Guatemala	27.5	1985-1986, 1988-1991, 1995-1996, 2002-2005
Amatitlán	Guatemala	20	1995-1997, 2005
Ahuachapán	El Salvador	95	1998-1999
Berlín	El Salvador	60	1998-1999
Cerro Prieto	Mexico	620	1989-1990, 1991-1992, 1998-1999, 2005
Los Azufres	Mexico	185	2003; 2008
Los Humeros	Mexico	35	2003; 2008
Las Tres Vírgenes	Mexico	10	2003
San Jacinto - Tizate	Nicaragua	60	1997-1998, 1999-2001, 2004
Momotombo	Nicaragua	37	1979, 1995-1996, 1999-2001
Chiltepe, Tipitapa, Masaya-Granada-Nandaime, El Hoyo-Monte Galán, Cosigüina, Casita-San Cristobal, Ometepe, Telica-El Ñajo	Nicaragua	--	1999-2001
Laguna Colorada	Bolivia		1993
Latera	Italy	30	1985-1987
Mofete	Italy		1986-1987
Kocani	Macedonia	Direct Use	1983-1984
Kizildere	Turkey	15	1984
Germencik	Turkey	50	2007-present
Jermuk	Armenia	Direct Use	1998-1999

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Zugdidi	Republic of Georgia	Direct Use	1996-1998
Agua de Pao, Sao Miguel	Azores (Portugal)	13	1990-1993, 1998-present
Terceira	Azores (Portugal)		2003-present
Meager Creek	Canada		1990-1992, 2003-2006
The Geysers, California (Aidlin Leasehold)	United States	25	1988-1990, 1994-1995, 1996-1998
The Geysers, California (Thermogenics Leasehold)	United States	55	1981
The Geysers, California (MSR Leasehold)	United States		1982
The Geysers, California (NCPA Leasehold)	United States	220	1979-1989, 1995, 2004-present
The Geysers, California (Santa Fe Leasehold)	United States	89	1981-1984, 1995
The Geysers, California (GKI Leasehold)	United States		1982, 1985
The Geysers, California (CDWR Leasehold)	United States	55	1981-1989
The Geysers, California (GGC Leasehold)	United States	360	1979-1995
The Geysers, California (GRI Leasehold)	United States	130	1982-1989
The Geysers, California (CCPA Leasehold)	United States	130	1998
The Geysers, California (WGP Leasehold)	United States	35	2006 – present
The Geysers, California (entire field)	United States	2,000	1991-1992, 1993-1994, 1998-2001, 2004, 2006
East Mesa, California (Ormesa I)	United States	30	1984-1988, 1997, 2002, 2004

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East Mesa, California (Ormesa II)	United States	20	1986-1988, 1997, 2002, 2004
East Mesa, California (Ormesa IH)	United States	10	1989, 1997, 2002, 2004
East Mesa, California (Ormesa IE)	United States	10	1988-1989, 1997, 2002, 2004
East Mesa, California (GEMLP Project)	United States	46	1987-1991, 2002, 2004
Salton Sea, California (Entire field)	United States	290	1983-1992, 1994-1998, 2003, 2005
South Brawley, California	United States		1984-1985, 1992
Heber, California	United States	140	1980, 1987-1989, 1991-1992, 1994-1996, 1999, 2004-2005
Long Valley, California	United States	50	1985-1986, 1989-1991, 1992-1999, 2004
Coso Hot Springs, California (LADWP)	United States		1984-1987, 1988-1992
Coso Hot Springs, California (CalEnergy, Caithness)	United States	250	1986-1992, 1994-1999-present
Litchfield, California	United States	Direct Use	1982-1983, 1990-1991
Wendel, California	United States	3	1984, 2005
Amedee, California	United States	3	1987-1988, 2005
Susanville, California	United States	Direct Use	1980-1983
Surprise Valley, California	United States	30	1991, 1994, 2003-present
Puna, Hawaii	United States	30	1974-1983, 1988-1991, 1994-1998, 1999; 2005-present

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Lightning Dock, New Mexico	United States	10	2002-2003; 2008
Valles Caldera, New Mexico	United States		1998; 2007
Beowawe, Nevada	United States	15	1979-1984, 1990-1991, 1999, 2004-present
Blue Mountain, Nevada	United States	38	2006-present
Bradys Hot Springs, Nevada (GFP Leasehold)	United States	Direct Use	1980-1981
Bradys Hot Springs, Nevada	United States	25	1986-1987, 1991, 1994-1996, 2004
Desert Peak, Nevada	United States	10	1979-1981, 1990-1991, 2001-present
Dixie Valley, Nevada	United States	60	1983-1989, 1996, 1999 – present
Empire, Nevada	United States	3	1986-1988, 2004
Fish Lake Valley, Nevada	United States		1984-1985, 1995, 1998, 2001; 2006
Soda Lake, Nevada	United States	15	1986-1987, 1989-1991, 2002; 2008
Steamboat, Nevada (Steamboat Hills)	United States	13	1985-1988, 1995, 1997, 2003-present
Steamboat, Nevada (Lower Steamboat)	United States	45	1987-1989, 1991, 1995-1997, 2001-present
Reese River, Nevada	United States		2006-2007
Rye Patch / Humboldt House, Nevada	United States		1991-1992, 1998, 2005
Salt Wells, Nevada	United States	30	2004-2005; 2007
Stillwater, Nevada	United States	45	1988-1991, 1995, 2001 – present

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Alvord, Oregon	United States		1983
Crump Geyser, Oregon	United States		2006
Klamath Falls, Oregon	United States	Direct Use	1976-1980
Ontario, Oregon	United States		1979-1981
Vale, Oregon	United States	Direct Use	1990
Cove Fort, Utah	United States	30	1988-1989, 2002-2003, 2004 – 2005
Roosevelt Hot Springs, Utah	United States	26	1983, 1984-1986, 1990-1991, 2005; 2007
Thermo, Utah	United States	10	2008