

## CLEAN, RENEWABLE GEOTHERMAL ENERGY TO MEET THE INCREASING POWER DEMANDS OF WESTERN NORTH AMERICA

*Western GeoPower Corp. (WGP) is an Independent Power Producer dedicated to the generation of geothermal energy in North America with two projects under development:*

- ◆ *The 25.5 Megawatt WGP Unit 1 power plant at The Geysers in California is projected to commence electricity generation in 2010.*
- ◆ *The South Meager project in British Columbia is the most advanced geothermal project in Canada.*

### THE GEYSERS WGP UNIT 1 GEOTHERMAL PROJECT

- ◆ WGP leasehold past producer from 1979-1989 with a 62 Megawatt capacity plant (formerly PG&E Unit 15)
- ◆ Infrastructure in place (roads, drill pads, transmission line)
- ◆ 25.5 Megawatt (net) plant planned for startup in early 2010
- ◆ Permitting for wells and plant underway
- ◆ Power Purchase Agreement signed May 2007 (awaiting CPUC approval)
- ◆ 100% ownership in over 1000 leased acres

### SOUTH MEAGER GEOTHERMAL PROJECT

- ◆ Excellent location - 83 km from grid and 170 km from Vancouver
- ◆ Close proximity to Whistler, site of the 2010 Winter Olympics
- ◆ Only geothermal lease in Canada for the production of electricity
- ◆ At final stage of evaluation for commercial production of electricity
- ◆ Geological setting comparable to successful Coso field (270 Megawatts), in California, operated by Caithness LLC

### GEOTHERMAL ELECTRICITY FACTS

#### Geothermal Energy Statistics:

- World:** Approximately 9,300 Megawatts of electricity generation supplying 60 million people in 24 countries
- USA:** Over 2,800 Megawatts of electricity generation supplying 4 million people in AK, CA, HI, NV, UT.
- California:** 6% of electricity generation from geothermal (2,492 Megawatts), additional 15 projects under development (869 Megawatts)
- The Geysers:** Operational since 1960s, current capacity 900 Megawatts; Calpine, NCPA (Additional 2 projects under development, including WGP Unit 1)

#### Geothermal Benefits:

- ◆ Renewable energy in form of steam from high temperature geothermal reservoir situated close to the surface (500m - 3,000m) - wells similar to oil and gas - steam drives turbines to generate electricity
- ◆ Geothermal plants are very efficient, operating at 95-99% availability
- ◆ Only renewable energy that produces “base load” electricity



*The Geysers- WGP Unit 1  
Geothermal Project*

# WESTERN SEABOARD POWER DEMAND

- ◆ California's Renewables Portfolio Standard (RPS) requires 20% of electricity sales to come from renewables by 2010
- ◆ In 2006, approximately 15% of all electricity consumed in California came from renewables such as geothermal, wind, solar and small hydro
- ◆ Power demand exceeds supply in British Columbia, which has been a net importer of electricity over the past 5 years
- ◆ BC Hydro imported 7,400 Gigawatt-hours in 2005 (14% of load)
- ◆ BC Hydro plans to acquire some 10,000 Gwh/year of firm energy by 2015 from Independent Power Producers and other third-party suppliers (source: BC Hydro 2006 IEP)
- ◆ BC requires 1,200 Megawatts of new capacity by 2010, increasing to over 4,000 Megawatts by 2023 to meet demand
- ◆ Policy of BC's Government and BC Hydro: 50% of new power to be "green"

## TECHNICAL PROGRAMS

### The Geysers - WGP Unit 1 Geothermal Project:

- ◆ Feasibility Report (completed October 2006)
- ◆ Power Purchase Agreement (signed May 2007, awaiting CPUC approval)
- ◆ Permitting (2007-2008)
- ◆ Start of Drilling (January 2008)
- ◆ Design & Construction (2008-2009)
- ◆ Commercial Generation (2010)

### South Meager Geothermal Project:

- ◆ Resource Assessment (2004-2007)
- ◆ Feasibility Study (2008)
- ◆ Permitting (2008)
- ◆ Design & Construction (2009-2010)
- ◆ Commercial Generation (2011)

## Public Listings:

- ◆ Listed on TSX Venture Exchange (Canada): WGP:V
- ◆ Secondary Market - Frankfurt: WE6.F
- ◆ "Blue-skied" in most states in USA
- ◆ Shares Issued & Outstanding: 184M

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Western GeoPower is a renewable energy company concentrating on geothermal energy projects in North America. The company is developing two projects: The WGP Unit 1 Project at The Geysers Geothermal Field in Northern California and The South Meager Geothermal Project located near Vancouver, British Columbia, Canada.

Western GeoPower is an ideal investment vehicle to meet increasing energy demands of the 21<sup>st</sup> Century in an environmentally friendly way. It is structured to appeal to retail and institutional shareholders, plus energy and environmental funds. It is also of a material size to appeal to utilities and independent power producers looking for new base load capacity to meet the strong and increasing demand for power.

Visit our website at:  
[www.geopower.ca](http://www.geopower.ca)

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Drilling at South Meager Geothermal Project, B.C. Canada