



## Renewable, Sustainable Geothermal Energy to Meet the Increasing Power Demands of Western North America

*Western GeoPower Corp. (WGP) is a renewable energy company dedicated to the delivery of clean, sustainable, baseload electricity generation in The Americas with two projects under development:*

- ♦ *The 35 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

- ♦ 35 Megawatt plant planned for startup in early 2010
- ♦ Infrastructure in place (roads, drill pads, transmission line)
- ♦ Initial permits for drilling in place, permitting for remainder of wells and plant in process
- ♦ 100% ownership in over 1000 leased acres
- ♦ Drilling program designed and managed by GeothermEx
- ♦ Drilling contract signed with ThermaSource to drill initial six wells
- ♦ Drilling of production wells underway
- ♦ Each geothermal well is expected to take 60-90 days to drill to a depth of approximately 10,000 feet

### 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
- ♦ Held under a geothermal lease for the commercial 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

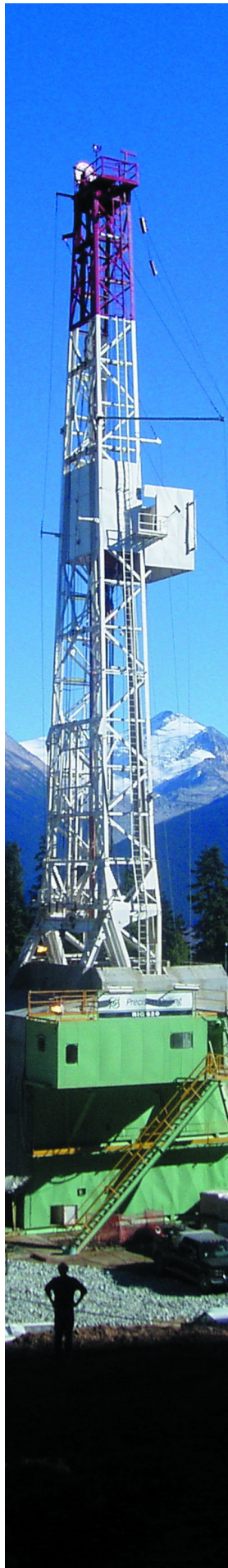
### Geothermal Electricity Facts

#### 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, ID, NV, UT.
- California:** 6% of electricity generation from geothermal (2,492 Megawatts), additional 15 projects under development
- The Geysers:** Operational since 1960s, current capacity 900 Megawatts; Calpine, NCPA, U.S. Renewables; plus WGP Unit 1  
One of two large geothermal fields in the world that produce dry steam

#### 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



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

## Western Seaboard Power Demand

- ◆ California's Renewables Portfolio Standard (RPS) requires 20% of electricity sales to come from renewables by 2010 with a goal of 33% by the end of 2020
- ◆ In 2006, approximately 15% of all electricity consumed in California came from renewables such as geothermal, wind, solar and small hydro
- ◆ In 2006, approximately 6% of the electricity in California came from geothermal
- ◆ The Geysers Geothermal Field located 75 miles north of San Francisco is the largest producing geothermal field in the world.
- ◆ California has 49 geothermal power plants with a total installed capacity of 2492.1 MW
- ◆ There are 15 projects under development which will increase California capacity by 970 MW
- ◆ Power demand exceeds supply in British Columbia, which has been a net importer of electricity over the past 5 years
- ◆ BC is now dependent on other jurisdictions for 10% of electricity
- ◆ 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"

### BC ENERGY PLAN 2007

- ◆ Plan to make BC electricity self sufficient by 2016
- ◆ All new electricity generation will have zero net greenhouse gas emissions
- ◆ Ensure clean or renewable electricity generation continues to account for at least 90% of total generation
- ◆ Establish an Innovative Clean Energy Fund of \$25 million
- ◆ BC Hydro must acquire an additional supply of "insurance power" beyond the projected increases in demand to minimize the risk and implications of relying on electricity imports

## Technical Programs

### The Geysers - WGP Unit 1 Geothermal Project

- ◆ Feasibility Report (completed October 2006)
- ◆ Permitting (2007-2008)
- ◆ Start of Drilling (February 2008)
- ◆ Design & Construction (2008-2009)
- ◆ Commercial Generation (2010)

### South Meager Geothermal Project

- ◆ Resource Assessment (2004-2008)
- ◆ Feasibility Study (2009)
- ◆ Permitting (2009-2011)
- ◆ Design & Construction (2009-2011)
- ◆ Commercial Generation (2012)

## 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: 186M



*The Geysers- WGP Unit 1 Geothermal Project*

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