

Energy - Docket Optical System

From: Loyer, Joe@Energy
Sent: Monday, April 29, 2013 12:03 PM
To: Energy - Docket Optical System
Subject: Docket 13-IPR-1P
Attachments: PSREC EMV Report 030310.pdf; 2013 Guidebook.pdf; Loan and License TEMPLATE.pdf; Presentation-093009.pptx; Third Party PSREC Geo Program Write Up 11_09.pdf

Categories: Ready to Docket

Please add this email and attachments to the Docket 13-IPR-1P and forward to the Web Team for posting on the AB 2339 web section.

Thanks, Joe.

From: Phil Henry [<mailto:phil@californiageo.org>]
Sent: Thursday, April 25, 2013 9:04 AM
To: Loyer, Joe@Energy; Donna Mills - Plumas Sierra
Cc: Hoellwarth, Craig@Energy; Lisa Meline
Subject: FW: PSREC GEO docs

Joe,

Donna Mills has provided the attached background Plumas Sierra docs for inclusion in the Working Group docket.

Thanks Donna!

Phil Henry
President
CaliforniaGeo - California Geothermal Heat Pump Association, Inc.
www.CaliforniaGeo.org
(916) 668-6868
Direct (530) 272-6789

From: Phil Henry [<mailto:phil@geoexchangesolutions.com>]
Sent: Monday, April 15, 2013 10:31 PM
To: Phil Henry
Subject: FW: PSREC GEO docs

From: Donna Mills [<mailto:dmills@psrec.coop>]
Sent: Wednesday, April 10, 2013 11:26 AM
To: Phil Henry
Subject: PSREC GEO docs

Phil,

I have attached several documents that I believe will cover your needs. Below is a summary we wrote in 2009, with one modification noted in *italics* in the last paragraph that represents the current program. Please let me

know if you need anything more. I am currently updating the “Third Party” write up and the power point presentation, but decided to include these as well.

Sincerely,

Donna M. Mills

In the spirit of the 7th Cooperative Rochdale Principal, “Concern for Community”, Plumas-Sierra Rural Electric Cooperative (PSREC) focuses on member needs and the sustainable development of our community by continually pioneering programs to enrich the quality of life for our members and to strengthen our community. PSREC developed our innovative Ground Source Heat Pump (GSHP) program to assist members with the upfront cost of installing these systems. In addition, the program reinforces our commitment to promoting energy-efficient and renewable energy technologies by displacing less efficient, fossil-fueled heating and cooling systems. With the State of California’s aggressive mandates for renewable energy resources, energy efficiency and greenhouse gas reduction goals; PSREC believes that our GSHP program is the perfect fit for our members.

The GSHP Program (a.k.a. “GeoExchange” Program) began as a pilot program in 1986, expanded to a lease program in 1993 and grew into a comprehensive program in 1997.

PSREC works with local HVAC companies, excavation contractors and drilling companies, significantly supporting our local businesses and economy with this program.

Building electric load has been a basic goal for PSREC and high penetration of the GSHP program in our service territory has built significant winter loads (Portola has over 7300 heating degree days annually). We believe PSREC has one of the highest densities of GSHP system installations, per capita, in the country. Some housing developments, such as Grizzly Ranch, have reached as high as 60% penetration rate.

The success of this program is partially due to the ideal climate for the technology, but mostly due to the “Loop Lease” program that allows members to minimize the upfront cost of the system by obtaining a 30-year interest free lease (*now a 15-year loan*) to finance the exterior heat-exchanger loops. The following are our program achievements:

Summary of the program achievements for 2008:

32 new GSHP systems installed within our service territory
227 Tons of heating and cooling
\$346,251 Loop leased amount
\$30,500 Rebates provided

Summary of the cumulative achievements, 1986 through November 2009:

452 GSHP systems installed within our service territory
2500 Tons of heating and cooling
\$2,453,823 Loop leased amount
\$578,008 Total amount paid back on leases
313 individual Loop Leases outstanding