



Assiniboine & Sioux Tribes of the Fort Peck Indian Reservation



Office of Energy/Economic Development





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Policy Analyst

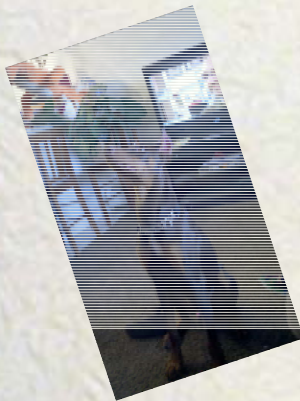
Fort Peck Tribes Economic Development Office/Energy Office

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Department of Energy-EECBG

- Train 6 GSHP Installers certified through IGSHPA
- Install 10 GSHP on Tribal houses
- Monitor savings via electric bills





Ground Source Heat Pump Installer Training

- International Ground Source Heat Pump Association (IGSHPA)
- Aug 23-26, 2011
- Stillwater, Oklahoma
- Certified in Socket & Butt Fusion





IGSHPA Training



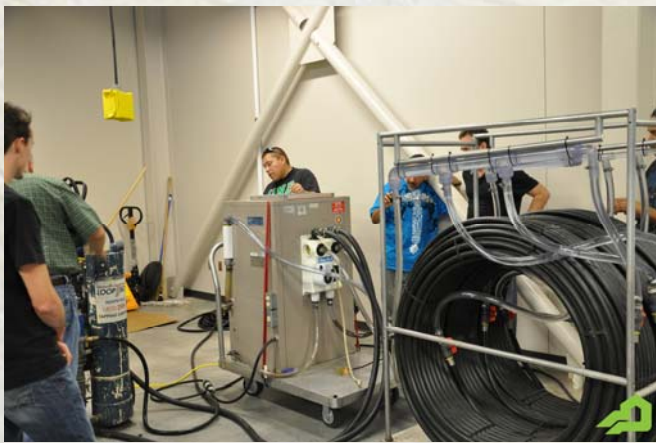


Installer Team





IGSHPA Training





GSHP Geothermal Drilling





Geothermal Drilling





GSHP Geothermal Drilling



Grout Trailer





GSHP Dirt Work

- Trenching 10' Deep and 3' Wide
- Fort Peck Tribes Enterprise





GSHP Dirt Work





GSHP Fun





GSHP Pipe Fusion

- Takes place in the crawl space or trench





Hydron Revolution Module





GSHP Project



- Life time warranty on major components
- Compressor, Condenser, Fan Motor and Heat Exchanger





Propane vs. GSHP



GeoAnalyst® Operating Cost Comparison

3/13/2012

Weather Data Location: Glasgow MT

Annual Cost / Unit	System 1	System 2
	Geo System HXT048C	Propane Heating 90% Furnace / 13 SEER
Heating	\$602	\$2,232
Cooling	\$66	\$111
Water Heating	\$344	\$884
Constant Fan	\$0	\$0
Total Annual Operating	\$1,012	\$3,227
Energy Credit	\$0	\$0
Installed Cost after Credit	\$0	\$0
Annual Htg Energy (Million Btu)	20.5	86.0
	Reference Unit	Ref over Sys 2
Operating Cost Savings		\$2,215
Additional Installed Cost		\$0
Payback		0.00 Years
Htg Energy Savings (Million Btu)		65.5
CO ₂ Savings (metric tons / year)		0.5
Automobiles removed from road		0.1





Pay Back

- Geothermal Wells-\$2,000/well \$8,000/hm
- GSHP unit- \$6,000/hm
- Dirt Work- Fort Peck Tribes Enterprise, In-kind
- Estimated payback is 7 years





Geothermal Feasibility Study

Contracts have been reviewed by attorneys, Previous Tribal Council, The New Tribal Council, and were finally signed on Oct 29, 2011.

Geothermal sights are in the process of being selected, and data is being analyzed





Questions???

