

Generating Renewable Energy from Co-Produced Water at Oil & Gas





John Fox, CEO, ElectraTherm





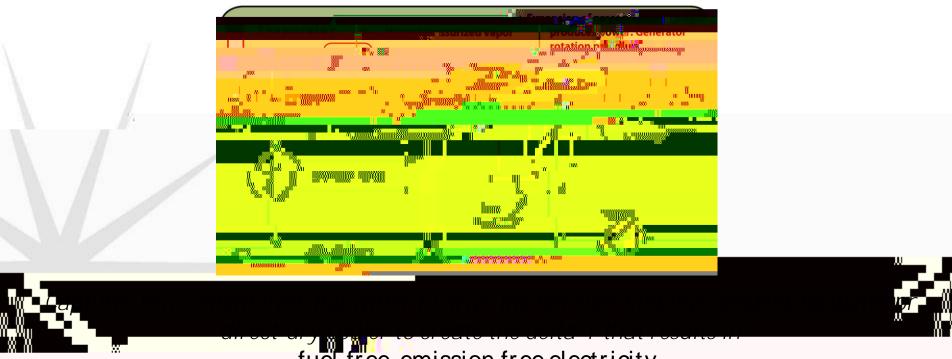






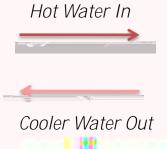
How It Works

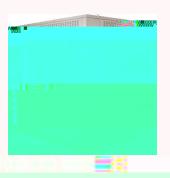




fuel-free, emission free electricity.



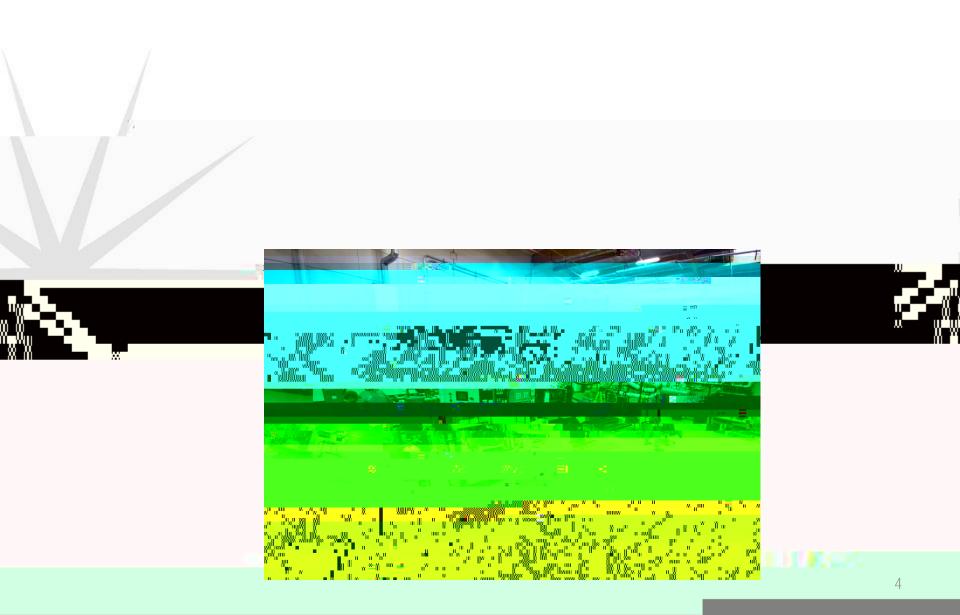






Commercialized Product Ready to Ship





IP, Advantages and Working Parameters

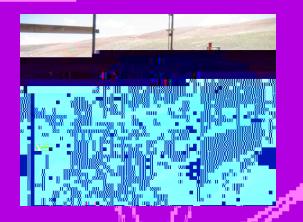


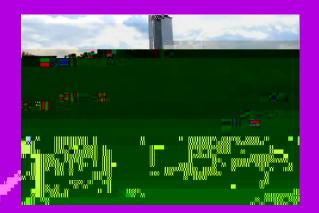


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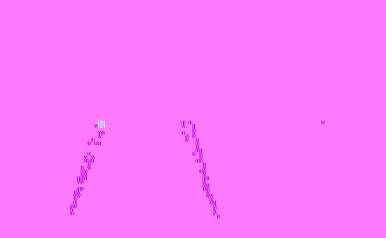
Commissioned Units & Target Markets









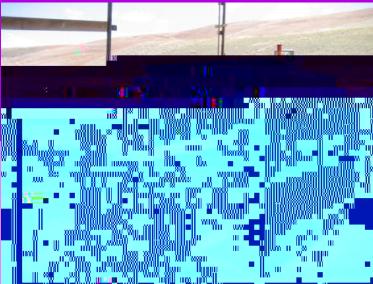




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Small-scale power generation from co-produced geothermal fluids

The Opportunity Co-Produced Water from Existing Wells



823,000 oil & gas wells in the U.S. 3 million GPM of hot water in top 8 states 3GW power at 212 F

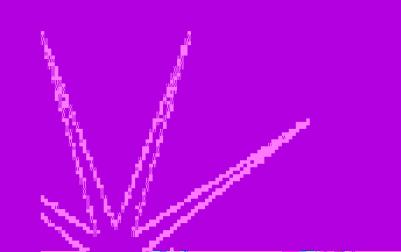
The Challenges







Co-Produced Water A Case Study





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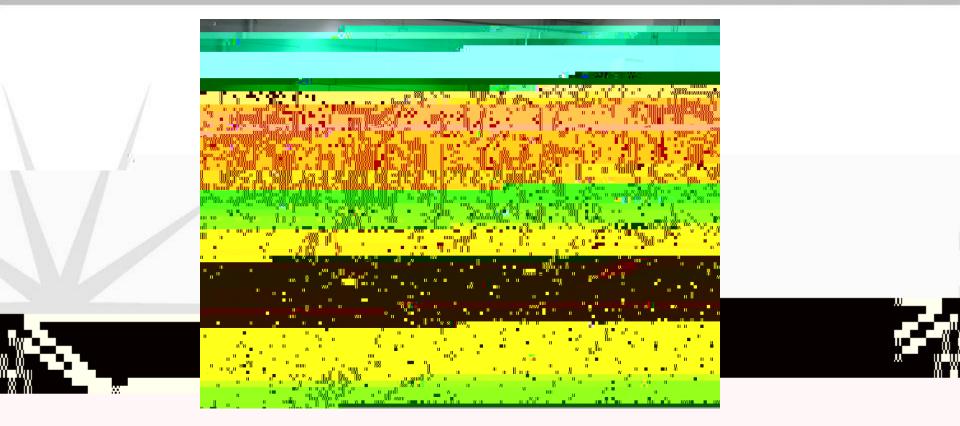






Step by Step through the Process





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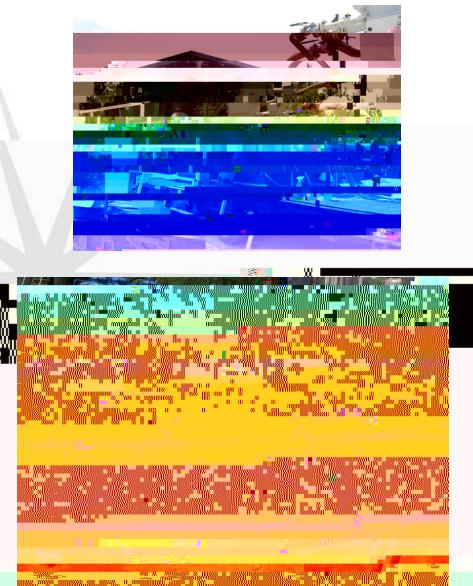
Step by Step through the Process

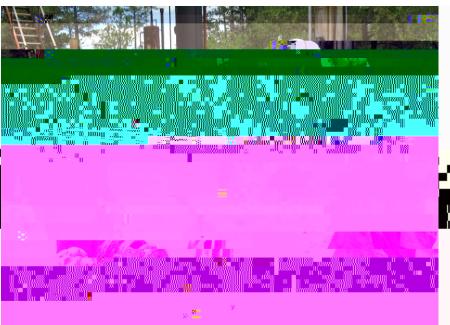




Tuesday, May 24



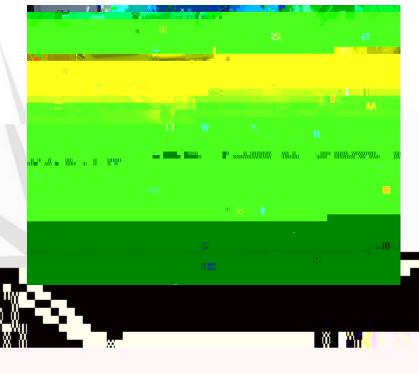


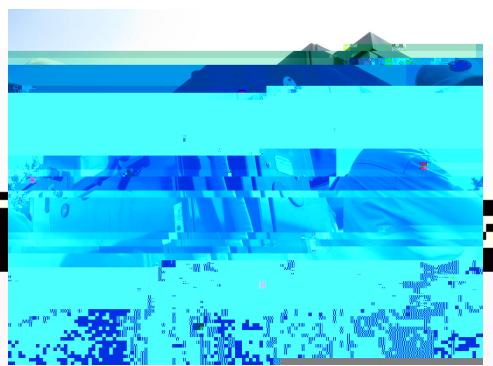


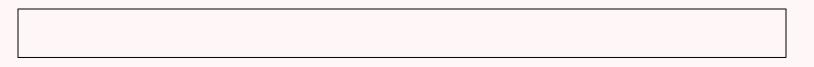
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Tuesday, May 24









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Wednesday, May 25

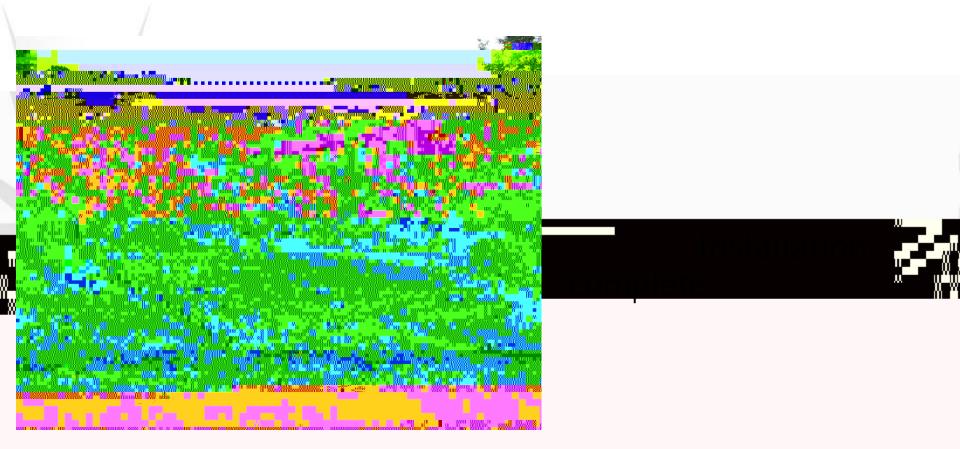






Thursday, May 26

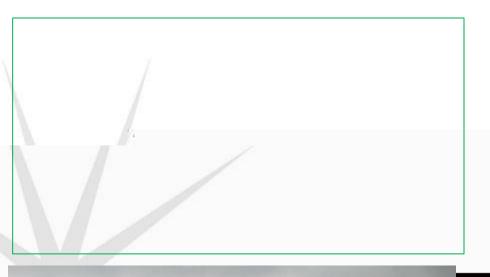






Results





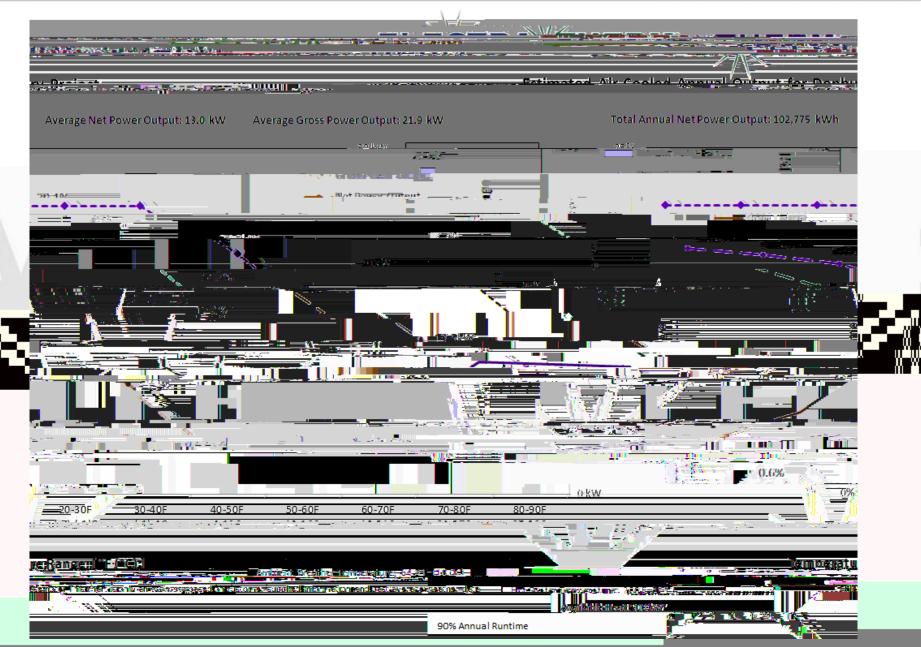


truck bed for a simple plug-and-play upon arrival at the site. The truck arrived at 9 a.m. on Tuesday and the machine was running in

- Dave Mendershausen, Field Engineer, ElectraTherm

ELECTRA THERM

Reality of Denbury Site Conditions



Lessons Learned to Date

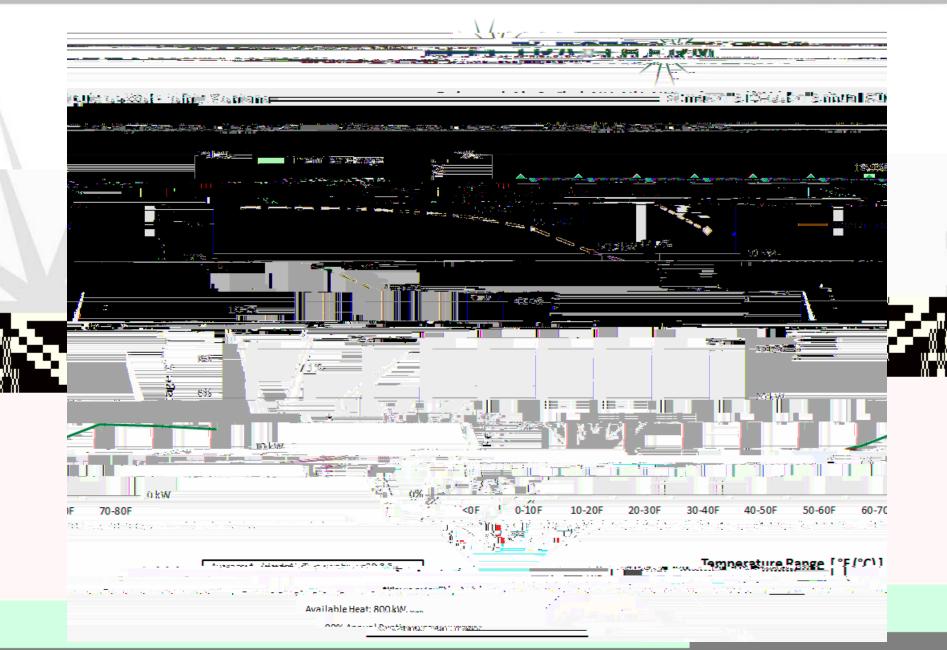
- ELECTRA
- 200F + high ambients = low delta T = derate
- Condenser is undersized (concurrent testing at ET shows ~40% derate)
- Flow is sub-optimal











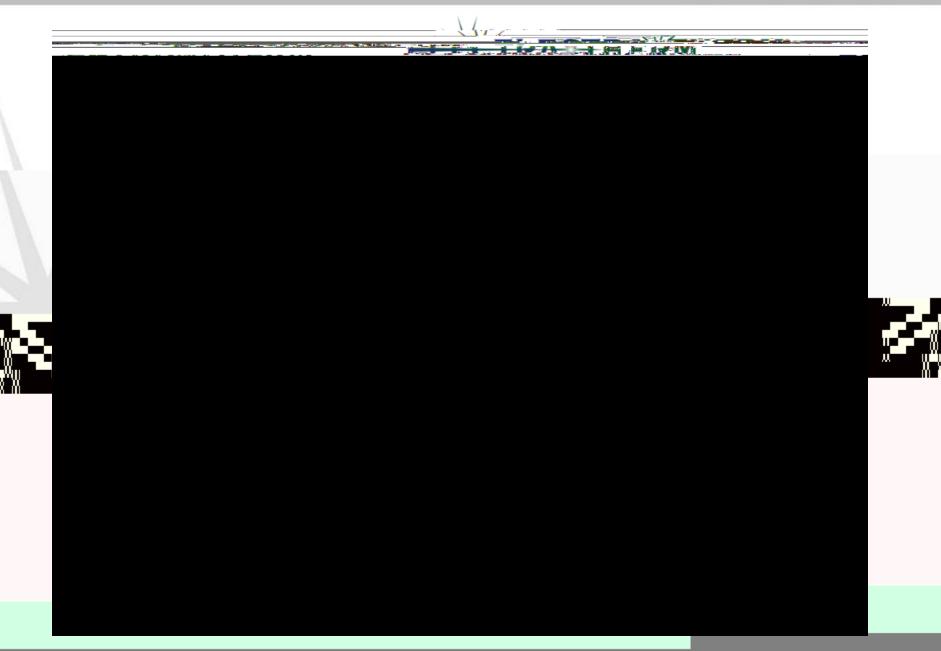
Example Site #2



ELECTRA THERM

Example Site #3





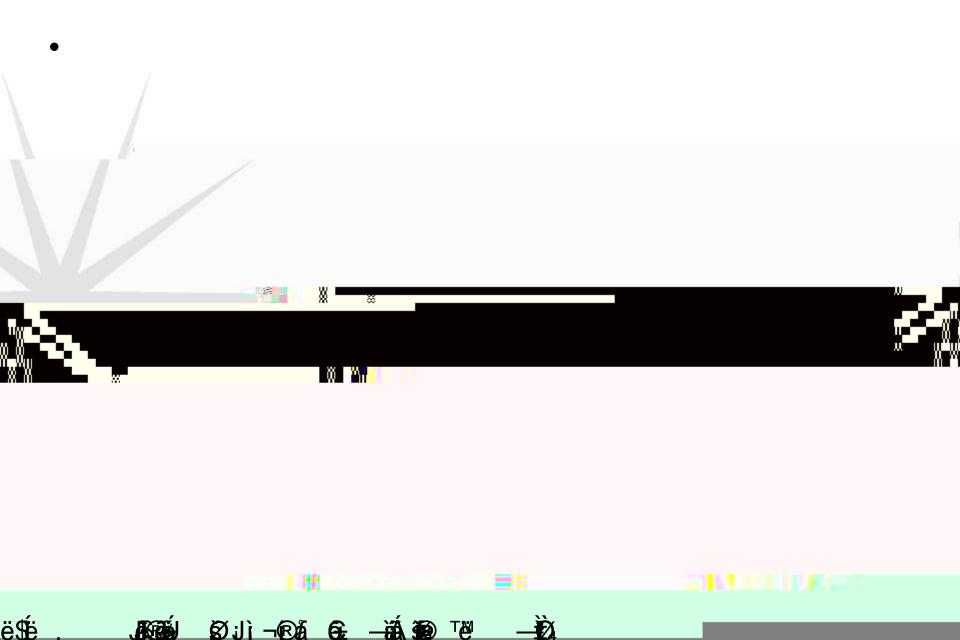






In Summary





Electra Therm, Inc.







