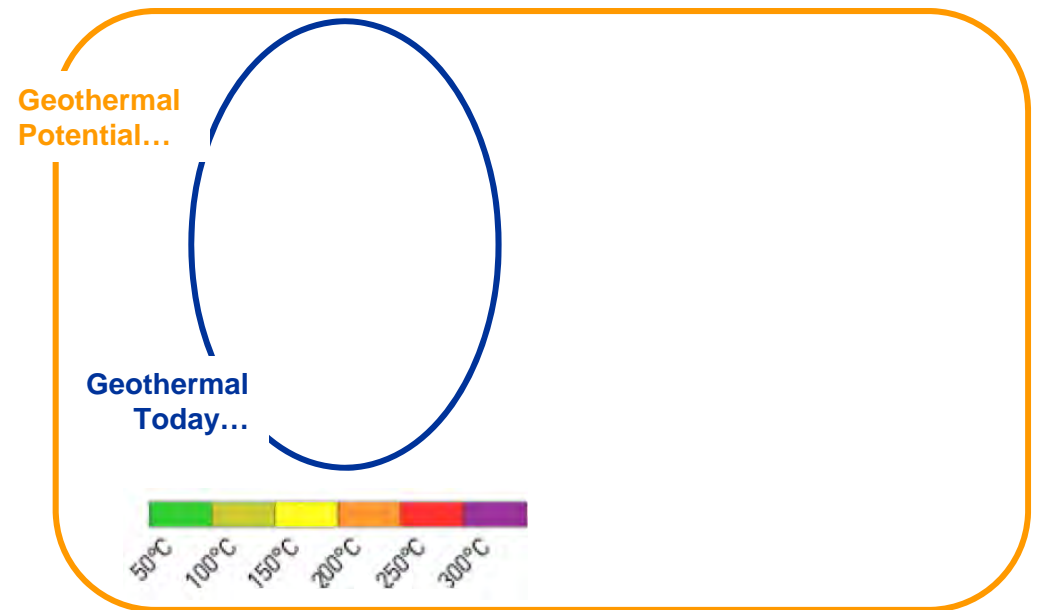




CO2 Generation for EOR and EGS



Paul Dunn, CTO

Rick Mobley, CEO

Enhanced Energy Group LLC

EEG



Refresher... EGS Working Fluid:
High Pressure Water or Carbon
Dioxide?

High Pressure Water

- Well understood
- Reacts with bedrock
 - Direct use of steam problematic
-

EEG



Enhanced Energy Group LLC Established July 2011

- US / Canada representative for ALCO, Fairbanks Morse, and Colt Pielstick engines of EnPro Industries
 - 600 to 15000 kW

EEG

EEG



Phase 1 Engineering Effort Complete

EEG: Initial model

FME: Initial specific fuel consumption estimates

FME: Engine configuration test data analysis

EEG: Chemical Engineering Flow Sheet based system simulations:

Actual mixture properties, two phase, chemical equilibrium/combustion

EEG: Component design / selection complete

AVL – Engine modeling complete, will work on SI or Dual Fuel OP with minor modifications (CR)

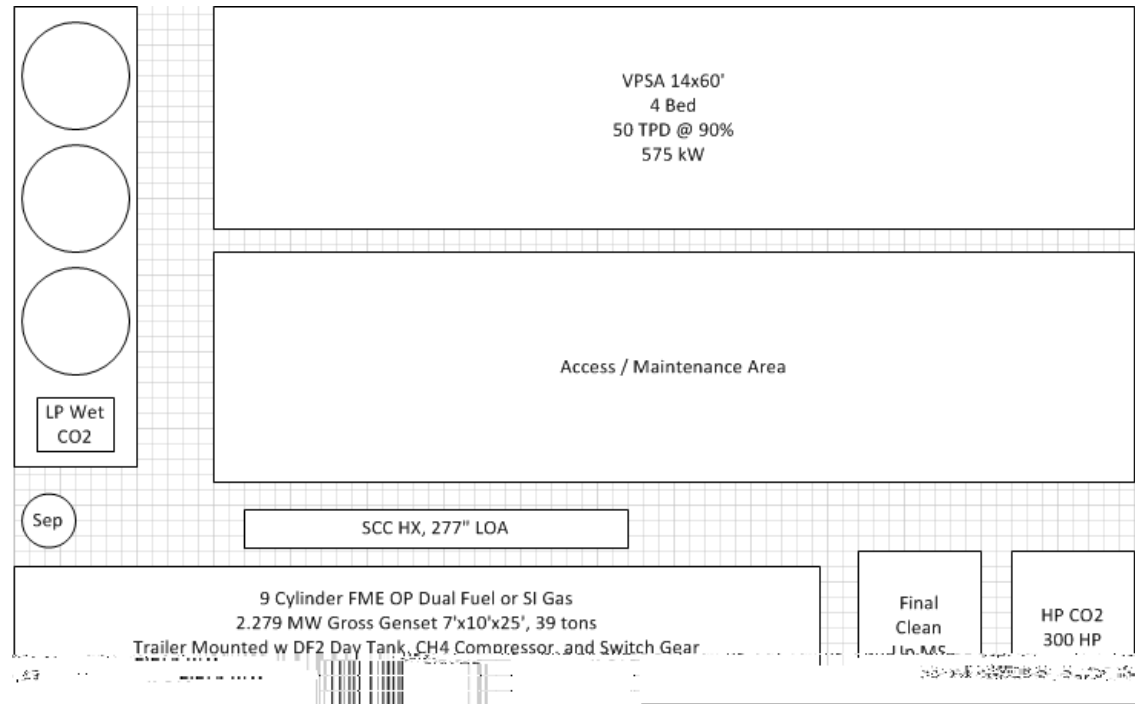
FME 3 MW Opposed Piston Engine



Mobile / Test Flood System (2 MW) Preliminary Characteristics

- Target Price: \$6.5M
- FME 9 cylinder Dual Fuel or SI Opposed Piston Engine / Generator
- Adsorptech 50 TPD VPSA / PSA O2 Plant
- EEG Gas Clean Up System (Mole Sieve)
- HyperComp LP Wet CO2 compressor
- Ariel HP Dry CO2 compressor

32 tons per day CO2
~37% Gross Cycle Efficiency
1400+ kW Net
50' x 75' Footprint





LPD-21 USS New York
Steel from The World Trade Center
Engines from Fairbanks Morse