

# Apex Centinel Energy Project - Comprehensive Report

## Comprehensive Summary

### 1. Generator Size vs Gas Flow Capacity

- 50 MCF/day ~500 kW generator
- 100 MCF/day ~1 MW generator
- 200 MCF/day ~2 MW generator

Standard dry gas is ~1,000 BTU/cubic foot.

### 2. Power Output by Generator Size

- 500 kW 12,000 kWh/day
- 1 MW 24,000 kWh/day
- 2 MW 48,000 kWh/day

### 3. ERCOT Market Sales

- Requires Qualified Scheduling Entity (QSE) partnership
- Market rates \$0.03\$0.15/kWh typical
- At \$0.09/kWh: 1 MW = \$2,160/day or ~\$64,800/month

### 4. Behind-the-Meter Mining (1 MW)

- 300350 Antminer S19s
- Est. 26 BTC/year @ 0.00025 BTC/day/unit

### 5. Sample 300 kW System (\$350k Budget)

- Generator: \$75k\$125k

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- Gas treatment: \$25k\$40k
- Switchgear: \$25k\$50k
- Interconnection/loadbank: \$30k\$50k
- Land: \$2.5k\$20k (Imperial, Coyanosa, TX)
- Prep, permits, fence: \$20k\$30k

## 6. Upgraded 500/750 kW System (\$500k Budget)

- Generator: \$150k\$200k
- Gas treatment: \$35k\$50k
- Switchgear/housing: \$40k\$60k
- Interconnection: \$40k\$75k
- Mining option: \$45k\$100k
- Site/fence/legal: \$65k\$115k

## 7. Revenue Potential

- 500 kW ~\$32,400/month
- 750 kW ~\$48,600/month

## 8. Capital Stack

- Senior Loan: \$250k\$350k @ 7.12%
- Owner Equity: \$50k\$100k
- Equipment Lease: \$100k @ 11%
- Grants: USDA REAP eligible

## 9. Lenders

# **Apex Centinel Energy Project - Comprehensive Report**

- PlainsCapital Bank, Crossroads Bank, Live Oak Bank
- USDA Rural Energy (REAP)
- CAT Financial, Cummins for lease

## **10. Project Timeline**

- Site select: 24 wks
- Order equipment: 46 wks
- Build/commission: 46 wks

## **11. Loan and Lease Payment Estimates**

- Senior Loan: \$300,000 over 5 years @ 9%

Estimated Monthly Payment: \$6,227.51

- Equipment Lease: \$100,000 over 4 years @ 11%

Estimated Monthly Payment: \$2,584.55

- Combined Total Monthly Debt Service: \$8,812.06