1st Coal Mine Methane Offset Project w/ CAR

Navigating the American Carbon World
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our energy for a cleaner environment
Project Highlights

- Partnership with Abating ventilation air methane (VAM)
- Financed by Biothermica
- Proprietary VAMOX® technology
- Medium scale unit (30,000 ft³/min)
- VAM @ 0.9% methane
VAMOX® Technology

- Regenerative thermal oxidizer
- Only needs 0.2% methane (up to 1.2%)
- 96%+ destruction
- Independent of mine fan & operations
- Fully automated
- Potential for heat recovery
VAMOX® Sits On Surface

Mine Fan

Fresh Air (as required)

Propene (start-up only)

CO₂

H₂O
Project Achievements

14,600 hrs of operation
89.0% availability
57,000 tCO₂e avoided emissions
Moving Forward

- Expanded partnership with
- Mitigate VAM from *all* suitable shafts
- Pipeline of 3 MtCO$_2$e/year
- 2 large scale units installed in 2011
- 1 VAMOX® $\approx$ 350,000 tCO$_2$e/year*

* with 0.9% methane
Thank You

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