



Methane from Abandoned Coal Mines - Our Business since 1994

Presentation by Dr. Cameron Davies, CEO
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UK CMM – Alkane Energy plc

- Company set up in Nottinghamshire coal field - 1994
- Apax venture capital group supported company
- Concept was capture CMM from from abandoned mines
- IPO on London stock exchange - 2000
- Alkane soundly based profitable company - 2007
- Large portfolio - 25 sites under evaluation
- CMM used as fuel for:
 - decentralized electricity generation – 6 plants
 - boiler fuel for steam raising – 2 plants
- Save emissions equal to 3 London - New York return flights/day
- Verification under way as VERs in voluntary market

Alkane – UK CMM Portfolio

Electricity Generation Projects

- Bevercotes - 4.05MW electricity
- Mansfield I - 2.7MW electricity
- Whitwell - 1.35MW electricity
- Sherwood - 0.7MW electricity
- Warsop - 1.35MW electricity
- Joarin (Germany) - 1.0MW electricity



Direct Gas Sales

- Mansfield 2 - 1MW equivalent
- Wheldale - 5MW equivalent



UK CMM - ACMMO

- Industry represented by Association of Coal Mine Methane Operators
- DEFRA CMM - 2005 reports indicate c. 1.5 mtpa CO_{2e} emissions
- CMM emissions set to continue beyond 2050
- Capture could contribute to UK Kyoto reduction targets
- Captured CMM replaces imported natural gas
- Prevents emissions hazard in built environment
- CMM is renewable in Germany and France
- Industry needs RO support to finance smaller projects
- Potential for 150MW as renewables generation by 2011

Alkane Energy plc



Profitable European Renewable Energy Company