

Thoughts on the Issues Facing CCS Globally.

John Gale

General Manager

IEA Greenhouse Gas R&D Programme

CCS Seminar "Bringing it Down to Earth"

ONS 2012, Stavanger, Norway

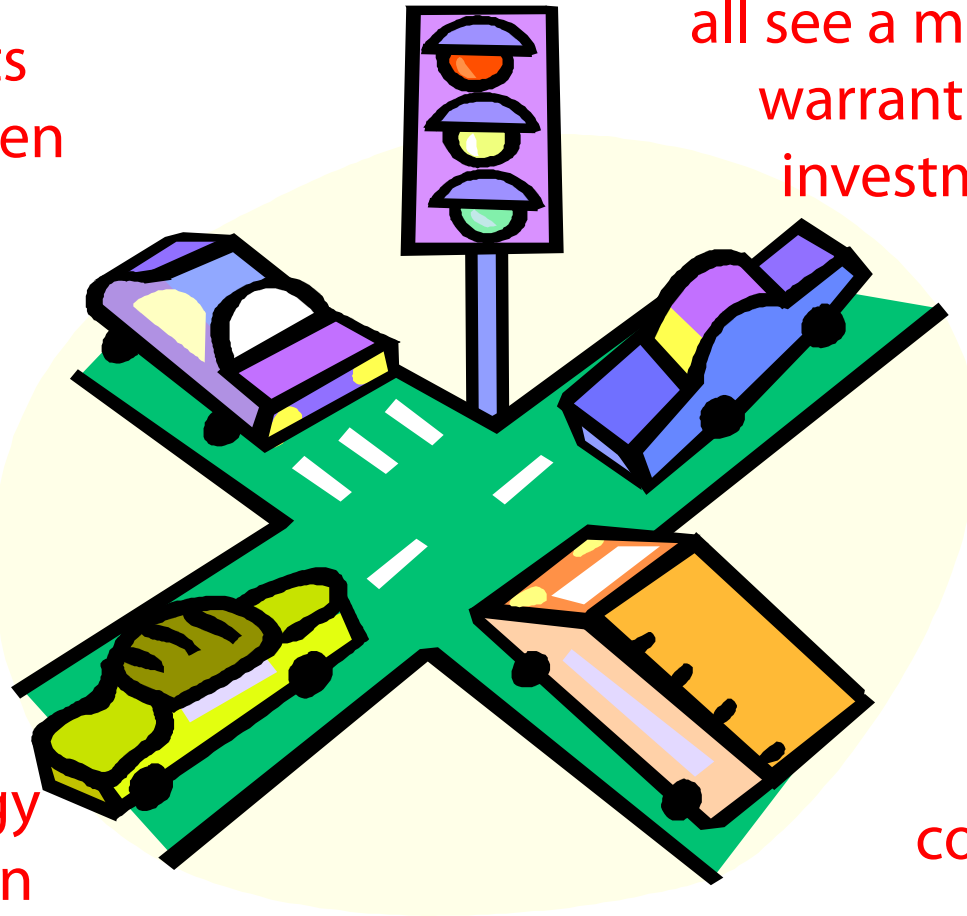
August 29th 2012

CCS “Caught at a Cross Roads”



Governments don't seem keen to invest

Companies can't all see a market to warrant their investment



How will the changing energy scene impact on CCS?

The Public in regions are concerned about safety

Issues for Governments



- All models show CCS has important role
- CCS already cost competitive
- No change to existing energy infrastructure
- Significant investment in renewables
- Additional cost of bringing electricity to market
- Invest in CCS phase in renewables later



Issues for Companies



Market stimulus through European ETS

CO₂ price is low

Liability issues need resolving

Who invests in the pipelines?

Will there be a global CCS market?

Better returns on investments elsewhere

The Public Debate



A lot of science to back safety of storage

Science not easily conveyed to public

A lot of misinformation on the web

Public not always convinced

Not sure what's in it for them?

Strong anti CCS lobbies can stop projects

The New Energy Age?



Are we entering era of cheap gas

Stimulus for gas fired power generation

Will reduce emissions but not enough!

Gas+CCS is more expensive

Does this delay CCS in the power sector

Wont see any more Gorgon's for a while



Thank you

john.gale@ieaghg.org