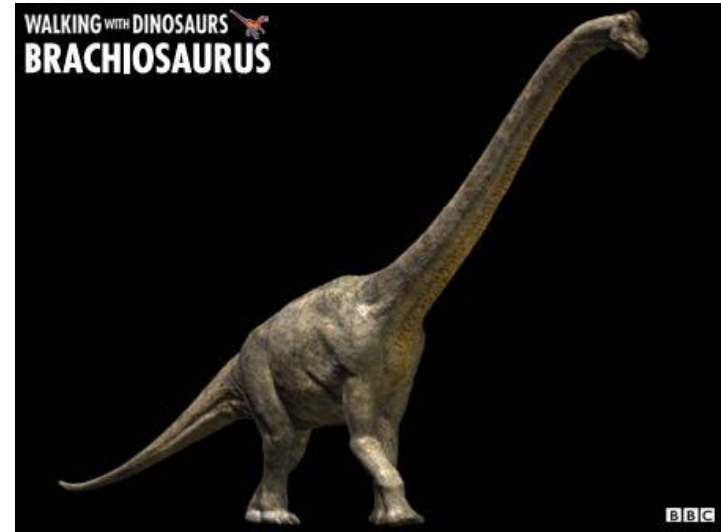


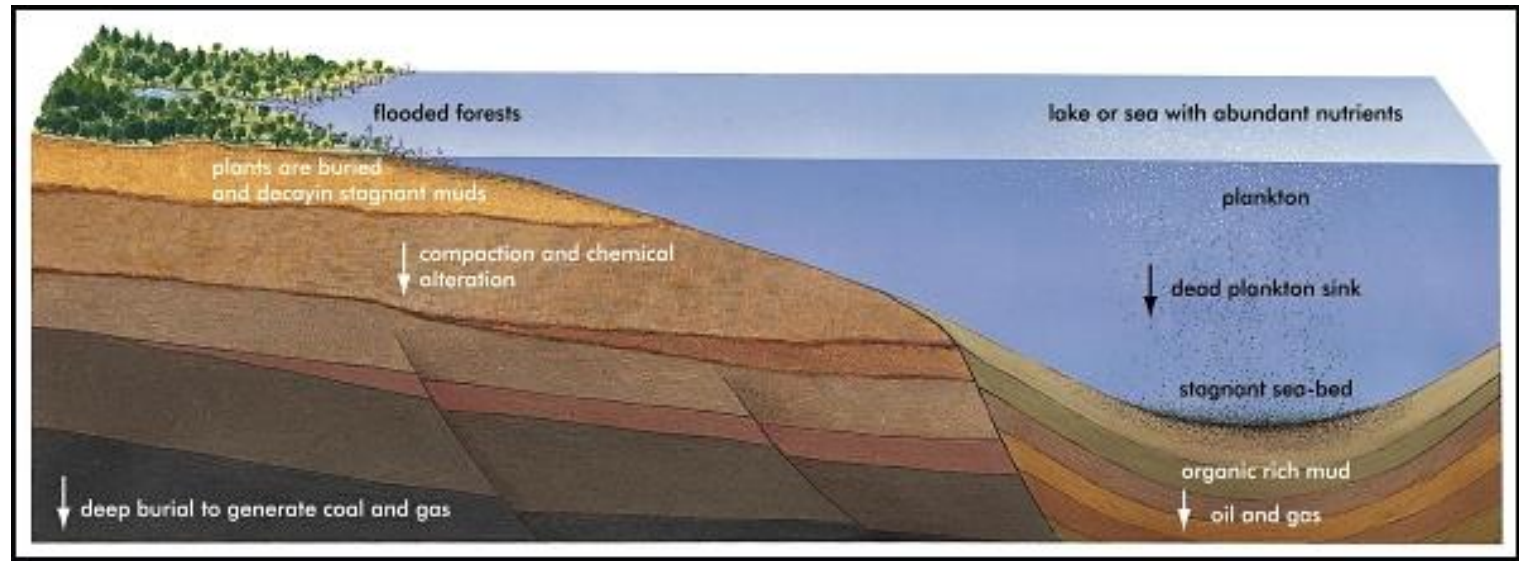
RENEWABLE NATURAL GAS

Presentation to Langley
Primary School
15 March 2010

200 Million Years Ago

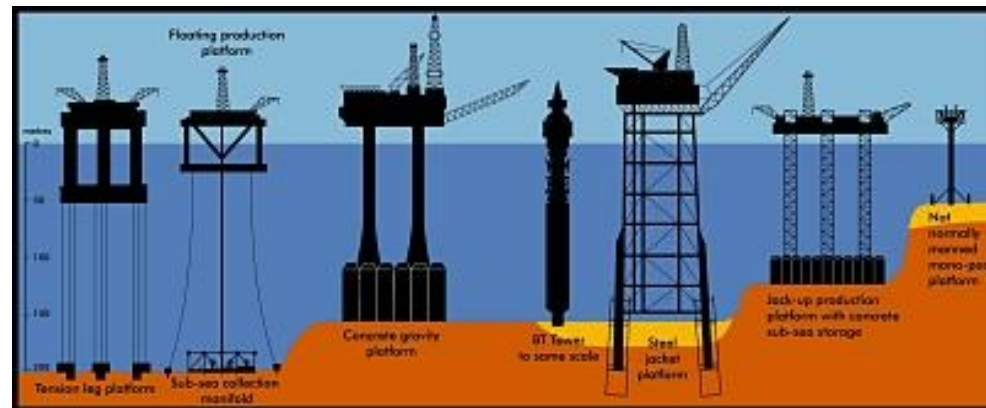
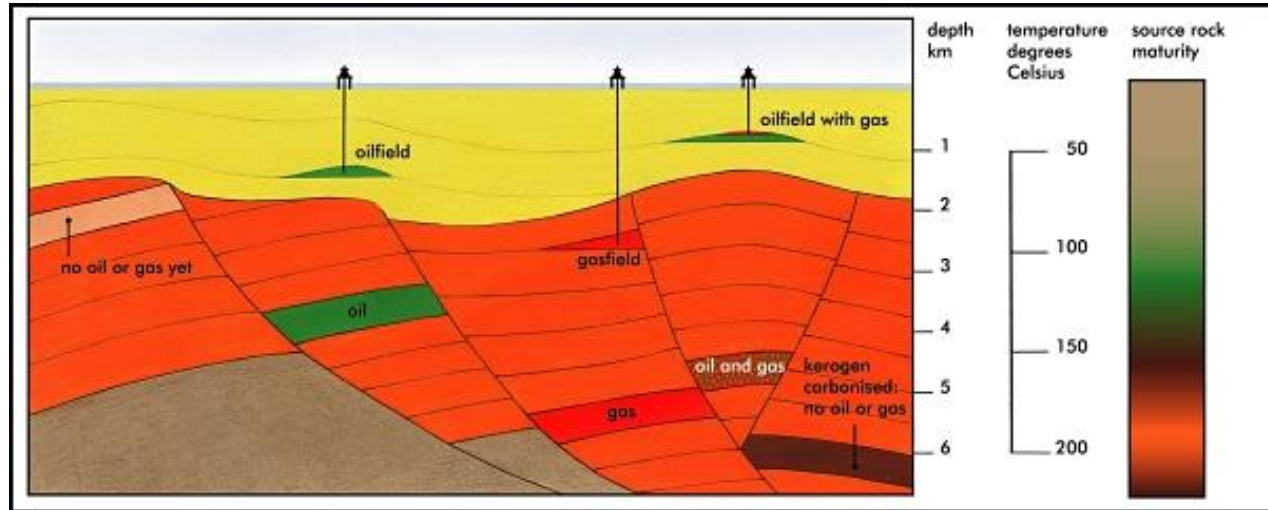


For a Period of 200 Million Years

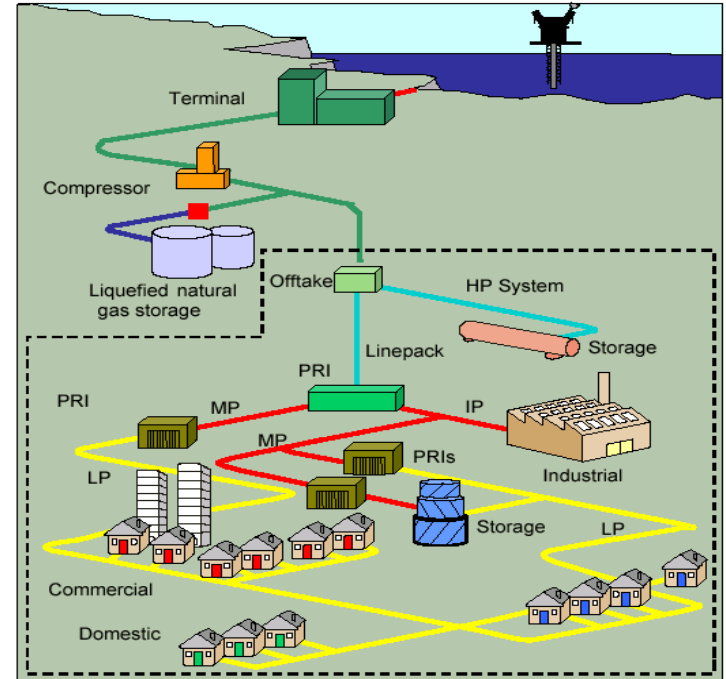
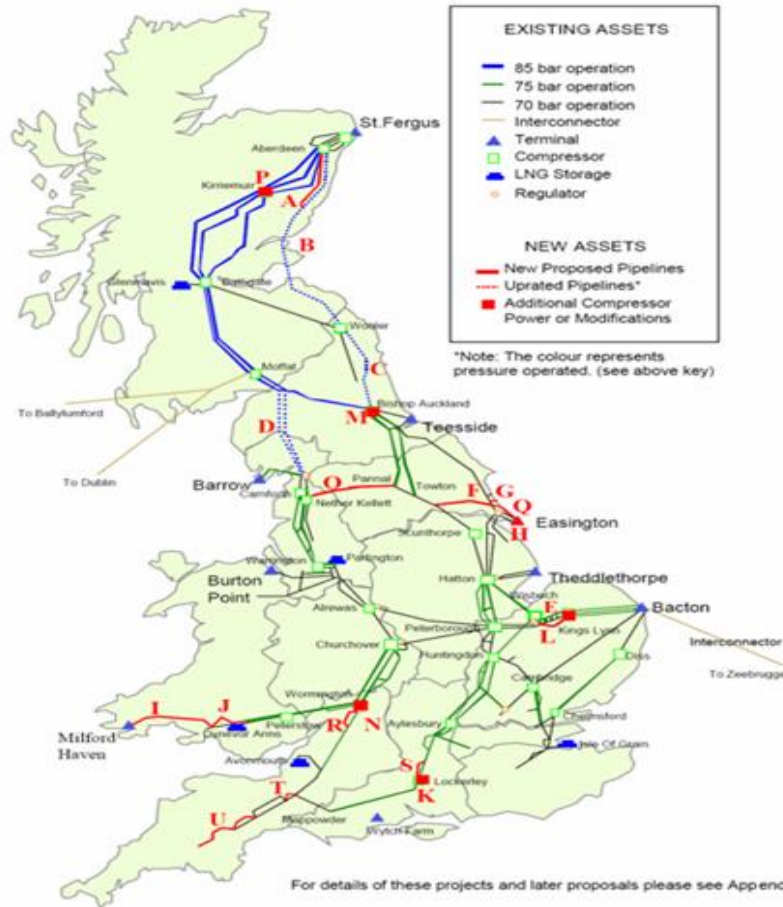


Lots of dinosaurs made lots of poo

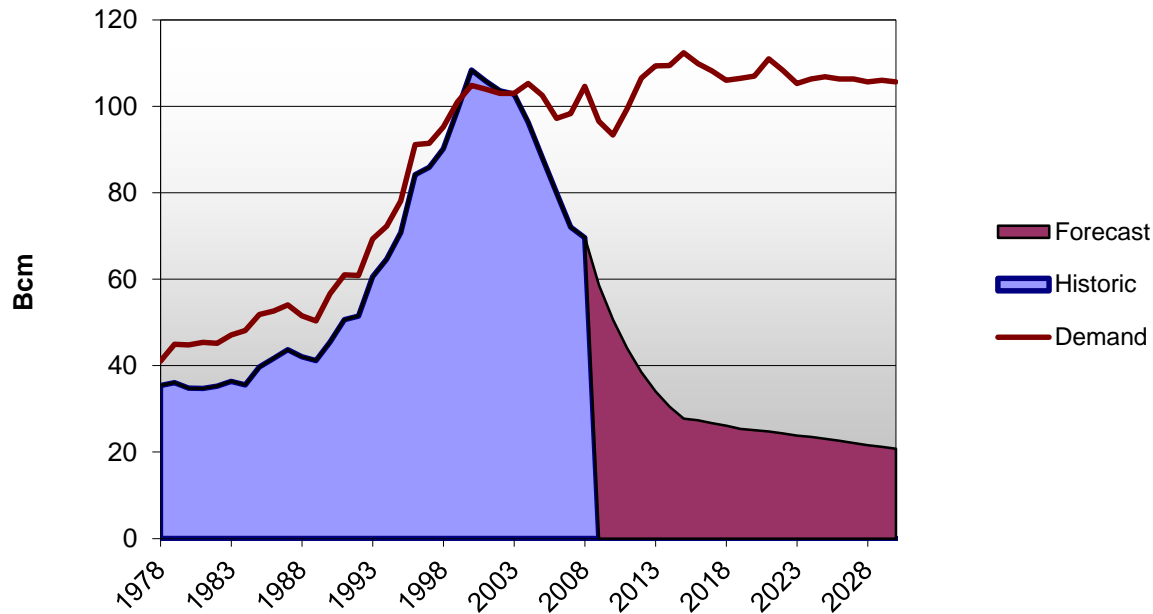
Today - Gas from the North Sea



Natural Gas Pipeline System



North Sea Gas Production



Started producing gas in 1967 and it has nearly all gone

Liquefied Natural Gas



So now we bring it to UK in ships from the Middle East and Africa

Uses for Natural Gas



Heating



Making electricity



Natural Gas and Global Warming

Fossil fuels give out carbon dioxide when they are burnt

Coal is worst



Then oil



Then gas



So.....

We are running out of natural gas from the North Sea and have to import it and it causes Global Warming.....luckily, we have a solution

It is called Biomethane



We can now make renewable natural gas today

Anaerobic Digesters



How Does it Work?



Bacteria convert
the 'organic'
waste to
methane

Thames Water at Didcot

Oxford Mail » News »

NEWS

Didcot leads way with Poo Power

5:18pm Friday 5th February 2010

 Print  Email  Share  Comments(1)

By Liam Sloan »

NOBODY likes to dwell on what happens after we flush the toilet.

But from this summer, human waste deposited in Didcot loos will end a 23-day-long journey by helping to heat local homes.

The journey is the result of a pioneering British Gas and Thames Water project at Didcot's sewage works.

The scheme will create enough gas for the national grid to heat 130 houses.

Didcot's sewage plant currently processes waste from 30,000 homes.

Whatever is flushed away at breakfast time should find its way to the sewage plant by the middle of the day.

Once there, it spends a week passing through three settlement tanks, gradually separating into clear water and gooey muck.

Undegradable solids such as nappies and cotton buds, and even false eyes and teeth,



Project manager Peter Taylor at Didcot Power Station

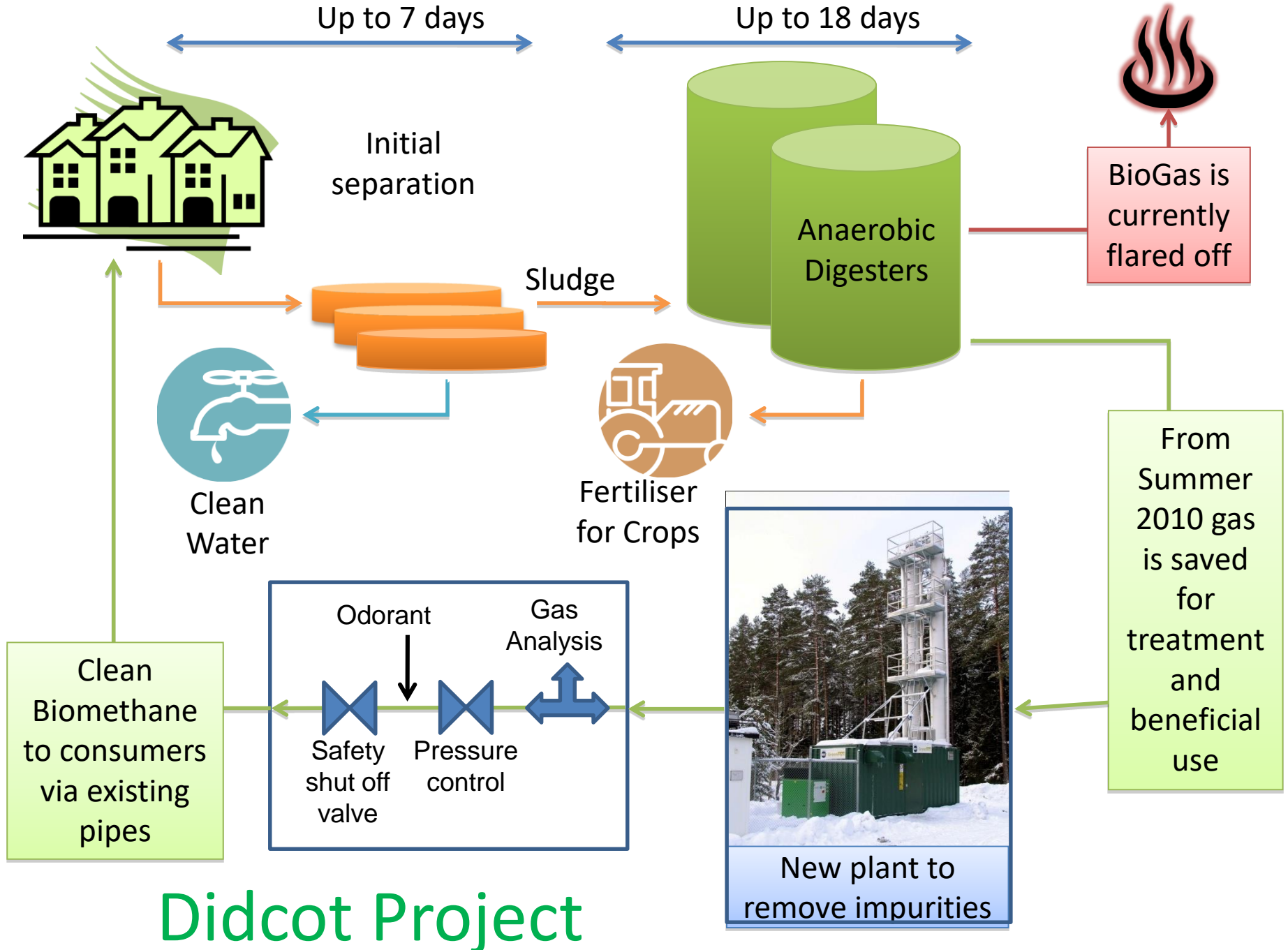
MOST READ MOST COMMENTS

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4. Driver has lucky escape in driveway drama
5. Results 13th & 14th March
6. Franny: We'll get over sticky patch
7. FATAL A40 CRASH: Police appeal for information
8. Bomb hero 'will get posthumous George Cross'
9. FOOTBALL: Harper tips Stevenage
10. Jemima Khan 'buys stately home for £15m'

ADS BY GOOGLE

[British Gas Official Site](#)





Up to 7 days

Up to 18 days

Initial separation

Sludge

Anaerobic Digesters

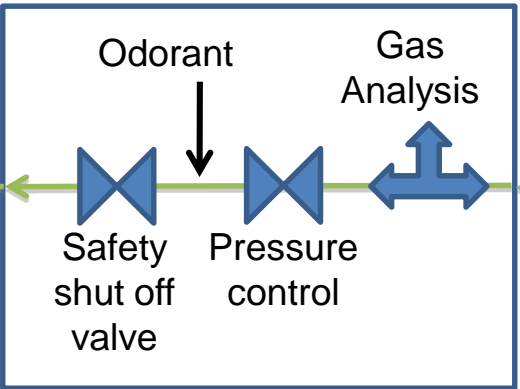
BioGas is currently flared off

Clean Water

Fertiliser for Crops

From Summer 2010 gas is saved for treatment and beneficial use

Clean Biomethane to consumers via existing pipes



New plant to remove impurities

Didcot Project

Uses for Biomethane



Same as fossil natural gas

Heating



Making electricity

But also for Vehicles



Much better for air quality

Big Trucks



These trucks are really quiet

Buses



Weed the garden



Don't eat the celery



Make bio-methane,
Fill the buses



Lille Video – click to
start

http://www.youtube.com/watch?v=Xz-I_EKU22A

So.....

You may see buses and trucks in Solihull in the next few years that are fuelled by poo power.....