

**Environment**: Water Issues, GHG's, Seismicity

**Shale gas production: Potential versus actual greenhouse gas emissions**

MIT; Nov 2012

[http://iopscience.iop.org/1748-9326/7/4/044030/pdf/1748-9326\\_7\\_4\\_044030.pdf](http://iopscience.iop.org/1748-9326/7/4/044030/pdf/1748-9326_7_4_044030.pdf)

**EIA: Energy related CO2 lowest in 20 years: (coal to nat gas switch played key role)**

<http://www.eia.gov/todayinenergy/detail.cfm?id=7350#>

**Royal Academy of Engineering: A Review of Hydraulic Fracturing**

<http://royalsociety.org/policy/projects/shale-gas-extraction/report/>

**MIT Study on fracturing**

[http://web.mit.edu/mitei/research/studies/documents/natural-gas-2011/NaturalGas\\_Report.pdf](http://web.mit.edu/mitei/research/studies/documents/natural-gas-2011/NaturalGas_Report.pdf)

**University of Wyoming, Penn State Study on Marcellus Environmental Impacts (SRSI)**

<http://www.srsi.buffalo.edu/wp-content/uploads/2012/05/UBSRSI-Environmental-Impacts-Single-Page.pdf>

**Shale Gas: The Facts about the Environmental Concerns (IGU) June 2012**

[http://www.igu.org/igu-publications/UG20120064\\_IGU\\_ShaleBooklet\\_Final\\_forWeb1.pdf](http://www.igu.org/igu-publications/UG20120064_IGU_ShaleBooklet_Final_forWeb1.pdf)

**NETL Office of Strategic Energy Analysis and Planning (DOE):**

***“Role of Alternative Energy Sources: Natural Gas Technology Assessment”***

**Context:** report on Shale GHG Life Cycle

<http://www.netl.doe.gov/energy-analyses/pubs/NGTechAssess.pdf>

**“Watered-down: Minimizing water risks in shale gas and oil drilling”:** KPMG

**Context:** states that despite water management issues, fracturing can, and has been done safely. While there are water risks to be managed, studies by the United States Ground Water Protection Council (GWPC), a not-for-profit association of state regulators, and the Environmental Protection Agency (EPA) have found no significant environmental risks as a result of proper hydraulic fracturing

<http://www.kpmginstitutes.com/global-energy-institute/insights/2012/pdf/minimizing-water-risks-in-shale-gas.pdf>

Fracking Causes Little Mess or Disruption <http://www.economist.com/node/21558462>

**IOD: Britain's Shale Gas Potential**

Context: lays out economic, environmental and security case for indigenous shale production in UK

<http://www.iod.com/Influencing/Press-Office/Press-releases/British-shale-gas-could-create-35000-jobs-reduce-carbon-emissions-and-lower-energy-prices>

**IEA: Golden Rules for Golden Age of Gas**

Context: global organization states the technology and track record is there for fracking, but better communication is needed;

[http://www.worldenergyoutlook.org/media/weowebiste/2012/goldenrules/WEO2012\\_GoldenRulesReport.pdf](http://www.worldenergyoutlook.org/media/weowebiste/2012/goldenrules/WEO2012_GoldenRulesReport.pdf)