

# SHALE GAS: impatto ambientale e aspetti economici/geopolitici

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Alla luce della [7 CBGI @H5N=CB9 DI 66@=75 9I T](#) lanciata dalla Commissione europea sui **Giacimenti non convenzionali di gas e petrolio in Europa**, j U''U'dYbU''X] f]Uggi a YfY''Y' df]bV]dU] X]ZZYfYbnY! ]b`hYfa ]b]'' **tecnico-operativi** ' ! \X Y' WUfUthYf]nnUbc ''EYghfUn]cbY' X] G< 5@9' ; 5G ]b`hYff]hcf]c' 9i fcdYc' f]gdYHrc' U''c' gWbUf]c' Ua Yf]W]bc''

In sintesi, si tratta di:

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- **vincoli normativi** Yi fcdY]`d]-` f][ ]X]`j g' I G5` 8U`Yj ]XYbn]UfY`]bc`hfY` [ ]` UgdYHh]` Y[ Uh]`U'' **Impatto ambientale - più invasivo** f]gdYHrc' U`EYghfUn]cbY` f]WUgg]W]f` X]` [ Ug`bUh` fU`Y`''

5`f][ i UfXc`g]`f]dcfhUbc`bY`U' **SCHEDE a lato gli aspetti più critici dell'impatto** YghfUth]`XU`g]hc' k YV`XY` **British Geological Survey (BGS)** "the world's oldest national geological survey and the United Kingdom's premier centre for earth science information and expertise."

## ESTRAZIONE di SHALE GAS: ASPETTI CHIAVE dell' IMPATTO AMBIENTALE

Shale gas extraction raises environmental concerns in relation to:

- **Carbon dioxide (CO<sub>2</sub>) and methane (CH<sub>4</sub>) emissions**, particularly the potential for increased **fugitive CH<sub>4</sub> emissions** during drilling compared with drilling for conventional gas
- the **volumes of water and the chemicals** used in fracking and their subsequent disposal
- the possible **risk of contaminating groundwater**
- **competing land use** requirements in densely populated areas
- the physical effects of fracking in the form of increased **seismic activity**

### Groundwater monitoring and protection

BGS undertakes a range of scientific studies to better understand groundwater-related processes and phenomena in relation to resource use such as shale gas extraction.

These include monitoring; aquifer characterisation and testing; chemical, isotope and environmental tracer analysis; groundwater dating; conceptual model development; development of risk screening tools and models.

### Fracking and seismic activity

It is well established that fluid injection can induce small earthquakes. Typically, these are too small to be felt.

Monitoring and careful analysis of shale gas fracking is required to help understand any relationship between the injection process and seismic activity.

Fonte: **British Geological Survey (BGS)** – "the world's oldest national geological survey and the United Kingdom's premier centre for earth science information and expertise"

(<http://www.bgs.ac.uk/research/energy/shaleGas/environmentalImpacts.html>)

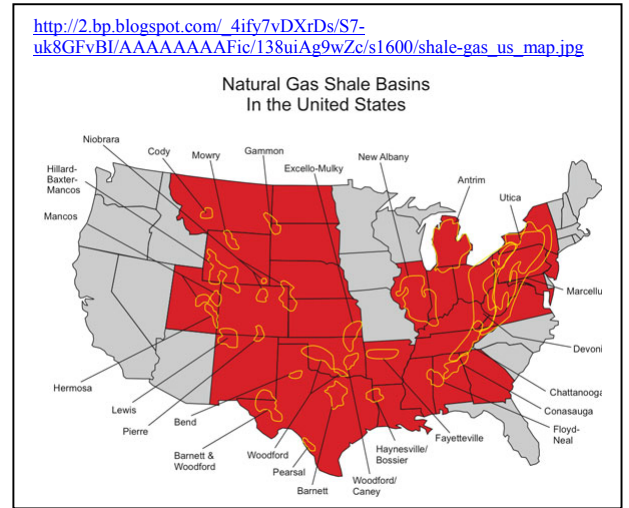
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"In questo clima, sarebbe un errore esiziale per l'industria credere che la ricchezza e i posti di lavoro generati dall'esplosione dello shale e le prospettive che può aprire per mondo intero possano fungere da assoluzione per i danni collaterali che essa comporta perchè i nemici dello shale sono tanti, agguerriti e con qualche ragione dalla loro parte.<sup>4</sup> ..."

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**SHALE GAS: "l'altro metano"? Spunti per "entrare in argomento"**  
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[http://www.ssc.it/pdf/2010/ID\\_99\\_SCHEDA\\_SHALE\\_GAS\\_07\\_2010-TZ.pdf](http://www.ssc.it/pdf/2010/ID_99_SCHEDA_SHALE_GAS_07_2010-TZ.pdf)

**Shale gas: GHG footprint ed impatto sul riscaldamento globale**  
S.Casadei (SSC), La Riv. Comb., Volume 65 - fascicolo n 2 – 2011- ( pag. 26)  
[http://www.ssc.it/pdf/2011/La\\_rivista\\_dei\\_combustibili/Rivista\\_combustibili\\_n\\_2\\_2011.pdf](http://www.ssc.it/pdf/2011/La_rivista_dei_combustibili/Rivista_combustibili_n_2_2011.pdf).

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[/www.ssc.it/pdf/2013/SHALE\\_GAS\\_3\\_\\_TZ\\_SSC\\_genn2013.pdf](http://www.ssc.it/pdf/2013/SHALE_GAS_3__TZ_SSC_genn2013.pdf)

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&`Int. a MAUGERI LEONARDO MAUGERI: "UN MUTAMENTO RADICALE CHE SI FARA' SENTIRE ANCHE IN EUROPA" (CORRAO BARBARA)  
a pag.15 IL MESSAGGERO 6-1-2013  
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