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Perspective of Shale Gas Extraction

Replacement of traditional fuel resources to the forefront in the modern world. Shale gas is a leader of perspectives fuel resources in the future. Shale gas is one of a number of unconventional sources of natural gas. He has been produced for years from shales with natural fractures. The shale gas boom in recent years has been due to modern technology in hydraulic fracturing.

In China, shale gas development is seen as a way to shift away from coal and decrease serious air pollution problems created by burning coal. The production advantages: low indicators of human deaths, microseismic events produced by hydraulic fracturing much too small to be detected except by sensitive instruments, the impact of natural gas on landscapes is even less and shorter in duration than the impact of wind turbines. Shale gas deposits are generally several thousand feet below ground. The significant impairment of the process will result in an environmental catastrophe. Shale gas was estimated to be 27% of the total resource. Technological advancements including hydraulic fracturing and horizontal drilling have enabled natural gas producers to safely and responsibly develop vast deposits of shale gas found thousands of feet deep beneath the Earth's surface. This means not only stable and abundant supplies of natural gas for power generation, transportation and industrial uses, but it also means hundreds of thousands of new jobs will be created as production of this resource increases. By 2035, shale gas will add more than \$231 billion to the national GDP and contribute more than \$57 billion in taxes.

China is estimated to have the world's largest shale gas reserves. Although the shale gas potential of many nations is being studied, as of 2013, only the US, Canada, and China produce shale gas in commercial quantities, and only the US and Canada have significant shale gas production. Other major players shale gas has: Argentina, Algeria, United States, Canada, Mexico, South Africa, Australia, Russia, Brazil.

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With respect to Ukraine the agreements with Shell and Chevron will enable us to have full sufficiency in gas by 2020 and, under an optimistic scenario, even enable us to export energy. The two shale projects could provide Ukraine with an additional 11 to 16 billion cubic meters (bcm) of gas in five years time. Natural gas development from shale formations could improve Ukraine’s energy independence, generate new revenue for government, create jobs and stimulate economic growth. As the share of shale gas production increases to 43% in 2015 and 60% in 2035, development of this resource will support more than 800,000 and 1.6 million jobs, respectively. Low and stable prices, thanks to the abundance of this resource, means that industrial groups will increase their use of this product spurring greater investment and job creation.

Shale gas is an excellent resource for people in the near future.