



## **After the us shale gas revolution**

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# After the us shale gas revolution

*Thierry Bros*

**After the us shale gas revolution** Thierry Bros

Book by Bros Thierry

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165 pages

Extrait

26 Centuries of Supply,

Demand and Innovation

In some places, natural gas is naturally escaping from under the earth's crust and burning. These fires puzzled most early civilizations, and were the root of much myth and superstition. Around 500 B.C., the Chinese first discovered the potential to use this gas to their advantage. They formed pipelines out of bamboo to transport gas where it was seeping to the surface, to cities where it was used for lighting and boiling water. Undoubtedly, it took them many trials and errors (i.e. explosions) to be able to master proper combustion...

In 1799, Phillipe Lebon used gas (produced from coal) to illuminate his house and gardens, and was considering how to light ail of Paris... But the first public street lighting with gas was the Pall Mail, in London in 1807. Gas lighting became more common, because towns became much safer places to travel around after gas lamps were installed in the streets, reducing crime rates. At the end of the XIX century, electricity became sufficiently economical and displaced gas as the most popular means of lighting in cities...

In 1855, the Bunsen burner was invented at the University of Heidelberg (Germany). This device that mixed natural gas with air in the right proportions, creating a flame that could be safely used for cooking, heating and sterilisation. The amount of air mixed with the gas stream affects the completeness of the combustion reaction. Less air yields an incomplete and thus cooler reaction, while a gas stream well mixed with air provides a complete reaction with a blue hot flame... that is still used as the logo of some gas companies. The Bunsen burner opened up new opportunities for the use of natural gas. The invention of temperature-regulating thermo-static devices allowed for better use of the heating potential of natural gas, allowing the temperature of the flame to be adjusted and monitored. Présentation de l'éditeur

After 20 years at different positions in the gas sector, from the policy trading floors, the author gives an overview of the major gas issues and elaborates on the consequences of the US shale gas revolution.

Biographie de l'auteur

Thierry Bros is, since 2010, Senior European Gas and LNG analyst for Société Générale. He joined the bank in 2007, as Senior Financial Analyst, to provide recommendations on listed pan-European gas stocks (BG Group, Centrica, Enagas, Gas Natural Fenosa, Gazprom, GDF SUEZ and Snam). He was, from 2002 to 2007, Senior Oil & Gas expert at the French Ministry of Economics, Finance and Industry, where he represented France on oil markets and emergency questions at the International Energy Agency (Paris) and the European Commission (Brussels). As a gas specialist, he negotiated the European directive concerning measures to safeguard security of natural gas supplied for France and reviewed the regulations governing the opening up and liberalization of the French gas market. Prior to that, he worked, for 10 years for IFP Energies nouvelles. Thanks to those different positions, Thierry Bros has access to top industry managers and high rank policy officials. Dr. Bros is also a visiting faculty professor at several universities and a speaker at international conferences on gas-related subjects. Thanks to its deep knowledge, Thierry Bros is also asked to chair sessions at the United Nations Economic Commission For Europe Gas Centre in Geneva.

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