



GAS INDUSTRY

STRONGLY INFLUENCED BY GLOBALISATION AND THE RISE OF EMERGING COUNTRIES

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WESTERN COUNTRIES: Average growth2000-2010=1,3%

Energy consumption in stagnation Issues: energy transition to succeed

Disorderly approach at the present time

EMERGING COUNTRIES: Average growth 2000-2010=3,3%

Attractiveness for FDI* (BRIC=290 G\$) Steady growth in energy consumption

Issues: ensure energy resources availability

(Coal, gas, oil, Renewable energies)

• DEVELOPING COUNTRIES: Economy based on exploitation of natural resources

Average economic growth

Issues: national consumption / exportation arbitrage

Transition energy model uncertain

• NON DEVELOPPED: Few natural resources

COUNTRIES

Internal social problems.

Threat on domestic and regional geopolitical

environment





FURTHER STEP FOR GLOBALIZATION

- A MULTIPOLAR WORLD
- NEW ECONOMIC CONFIGURATION
- IMPORTANT ENERGY CONTENT





NATURAL GAS

- Abundant for the moment, clean and cheap
- Geographical concentrations = competitions / arouse keen interest

(Iran-Qatar-Russia-USA)

- Unconventional resources in growth (America-China-Australia-Africa)
- Other producing countries concerned by maintaining their market share/ economic and energy transition
- Growing needs for emerging countries with high growth







- Oil: abundant (unconventional) = nonrenewable + pollution
- According to the IEA: high reserve growth and consumption until 2035 (emerging countries)
- Oil rank remains undisputed until 2030/35
- 90 billion dollars of investments per year in exploration/50% are for the unconventional
- Coal: abundant reserves specially in the biggest consuming countries (China-USA-Europe)
- Coal: is regaining what it has lost to other resources



THE NUCLEAR



- The most controversial today (victim of the Cold War before being an ideal for environmentalists)
- Currently: 3% of the world's energy,
 17% in Europe, 75% in France
- Main drawback: security and storage / processing of nuclear waste (probable solution by 2050 and reuse in power generation X?)
- No viable alternative for the current time
- Nuclear power remains stable despite the Fukushima disaster



RENEWABLE RESOURCES



- Main advantage: Environmental
- Disadvantage / economic challenge
- Forecasts 2030: Renewables = 20 to 25%Nonrenewable = 75 to 80%
- Heavy subsidies sometimes contested
- 1 nuclear power plant = 40 000 wind
 = 30 millions M² (solar)
- Foresights: related to technological progress





NATURAL GAS REMAINS

A DURABLE SOURCE OF ENERGY BY 2030, AND POSSIBLY BEFORE

THE SCOND ENERGY SOURCE



PRODUCERS AND CONSUMERS STRATEGIES WILL BE BASED ON



- 1. Ongoing geopolitical changes
- 2. Geographical distribution of reserves and the importance of the investments to ensure supply
- 3. Globalization or regionalization of markets (Competition between producers and market shares)
- 4. Issue of indexation of prices and long-term contracts facing the pressures of spot markets
- 5. Competition with other non renewable resources (coal and unconventional oil)
- 6. Competition or complementarity with other energy sources (GAS-NUCLEAR-Renewables)
- 7. Technological progress in energy saving

A LONG TERM VISION IS NEEDED







MULTI PARAMETERS FORMULA OR EVEN
WITH MANY UNKNOWNS THAT YOUR
TWO COMMITIES HAVE IN CHARGE
TO RESOLVE UNTIL THE NEXT

WORLD GAS CONGRESS
IN PARIS 2015