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THE FUTURE OF NATURAL GAS IN LATIN AMERICA SOUTH

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REPSOL YPF

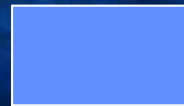
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**PAISES PRODUCTORES
EXPORTADORES**



**PAISES PRODUCTORES
IMPORTADORES**



**PAISES NO PRODUCTORES
POR AHORA**

Cuando se acaba el gas ?

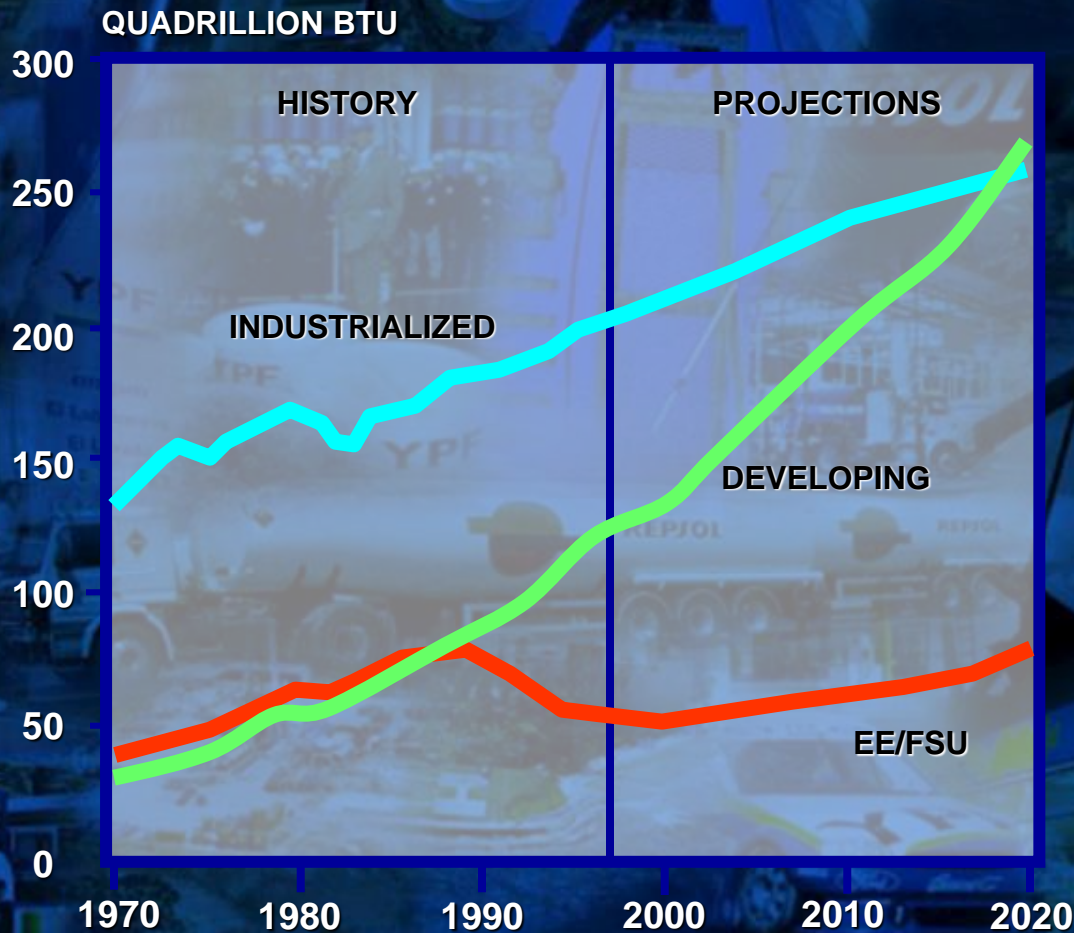
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Demanda vs. oferta

- Demanda energetica depende del grado de desarrollo del pais
- Componente de gas en la matriz energetica
- Reservas, recursos y produccion de gas en la región
- Estimaciones y Conclusiones

Consumos de Energía por Región



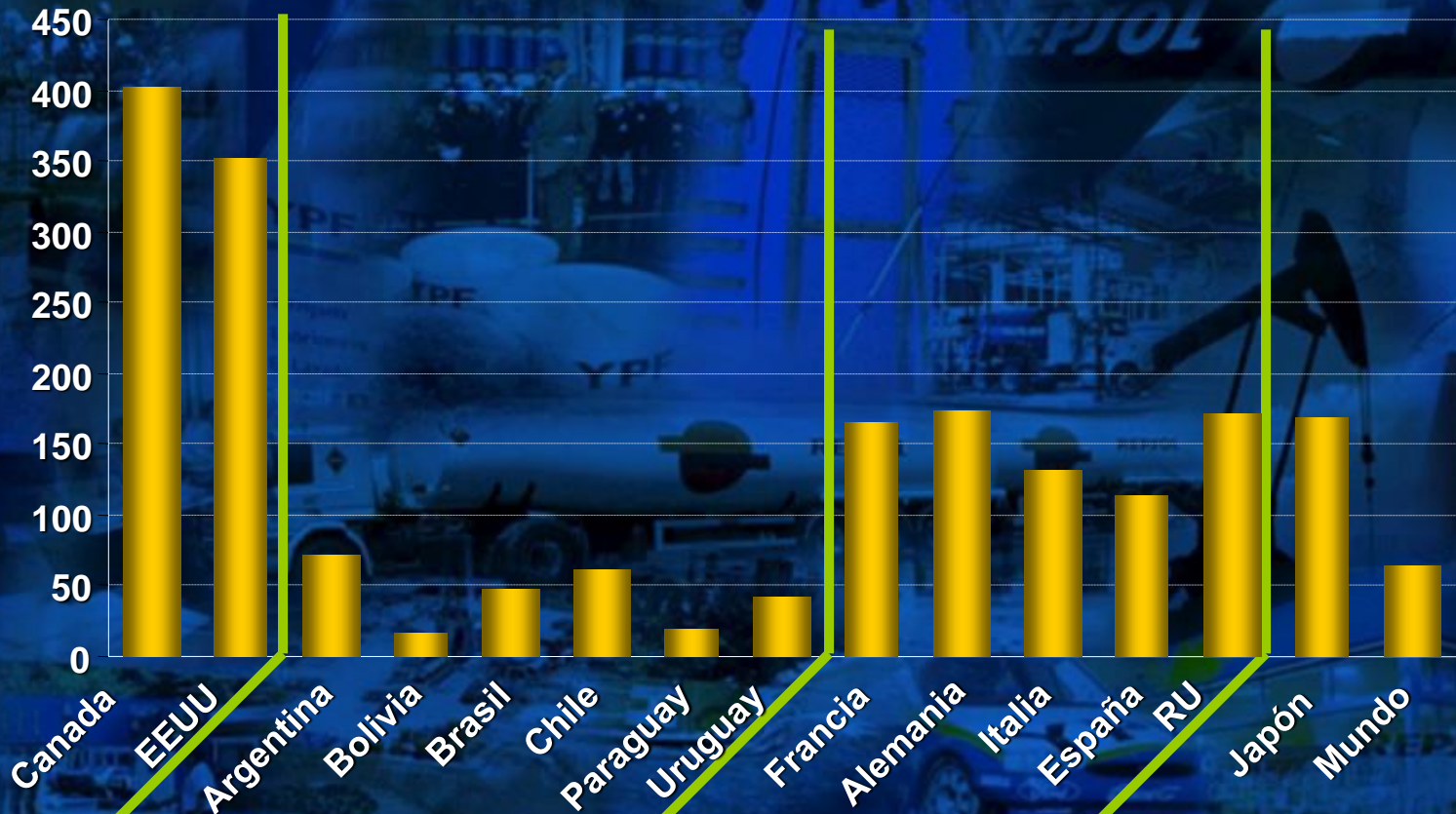
Fuente: EIA, International Energy Outlook 2000

Consumos de Energía por Habitante



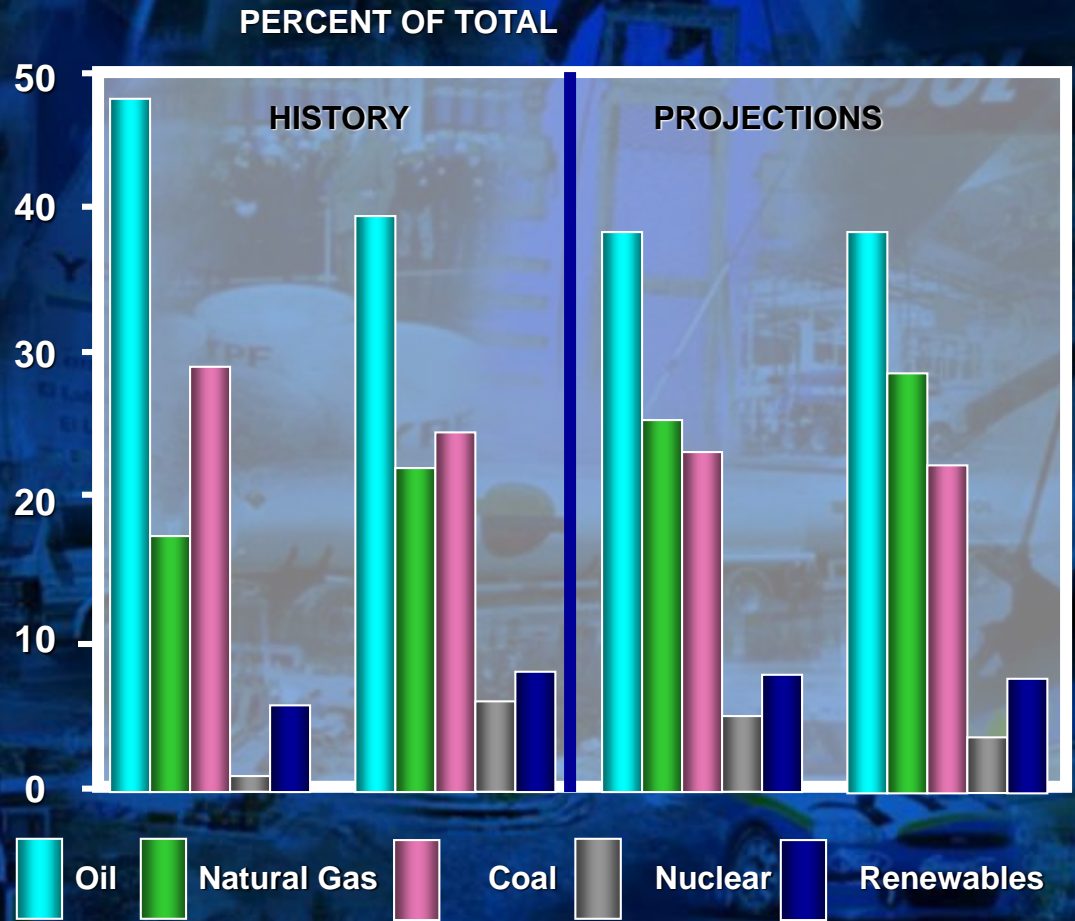
MMBtu/Hab.

Energía consumida por Habitante



Datos: EIA, 1997.

Fuentes de Energía a Futuro



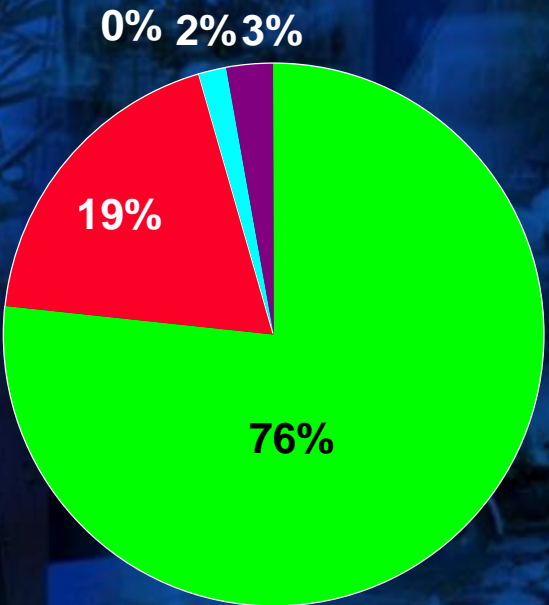
FUENTE: EIA INTERNATIONAL ENERGY OUTLOOK 2000

Primary Energy Consumption



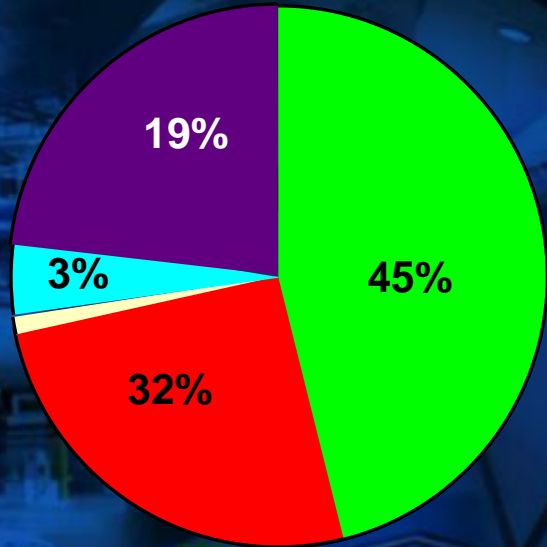
30 YEARS AGO

ARGENTINA



TOTAL: 28 Mtoe

USA



TOTAL: 1675 Mtoe

- OIL
- GAS
- NUCLEAR
- HYDROELECTRIC
- COAL

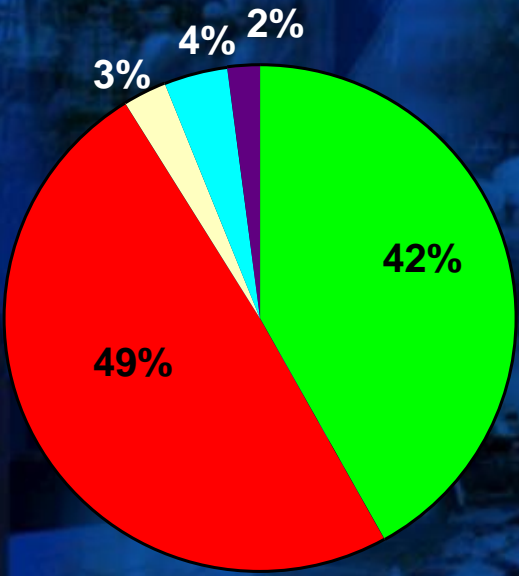
SOURCE: DOE / EIA

Primary Energy Consumption

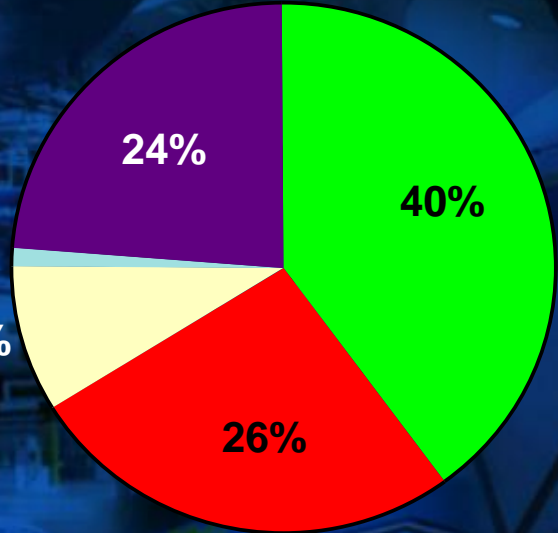
CURRENT OUTLOOK (1998)



ARGENTINA



USA

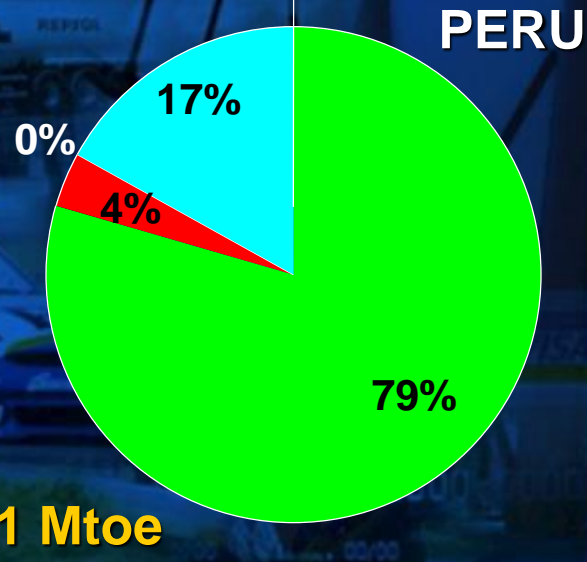
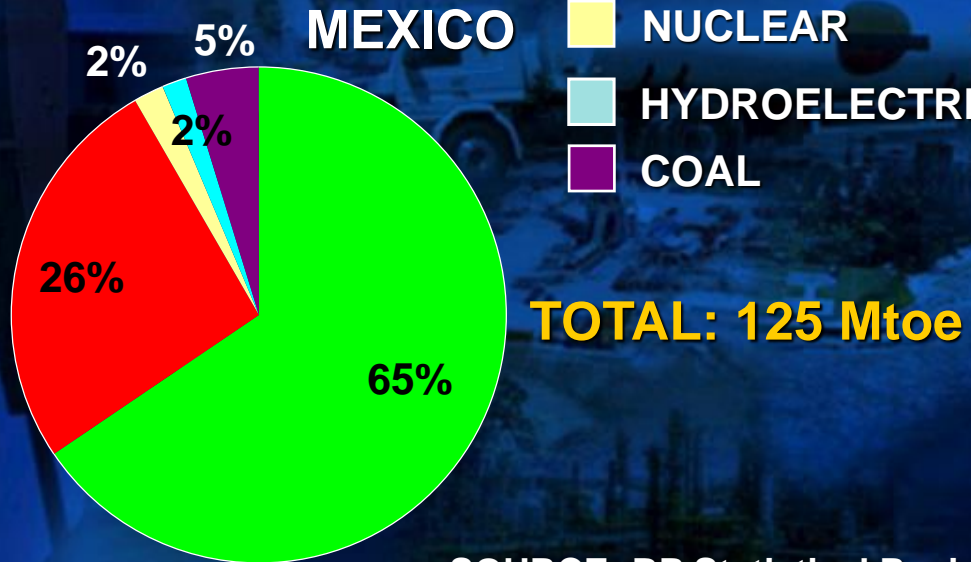
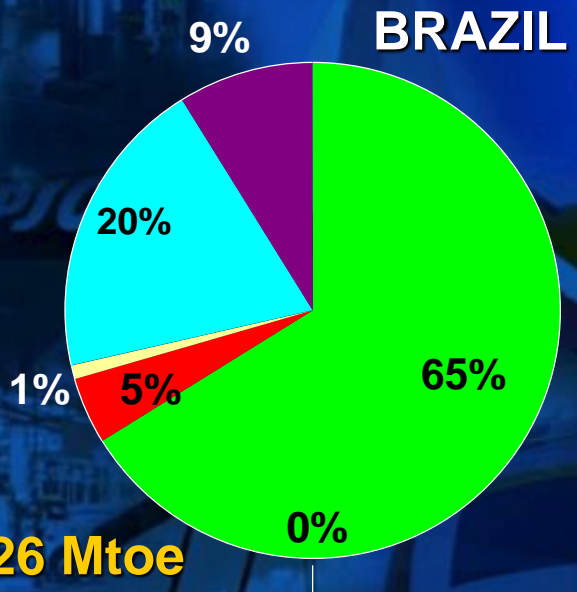
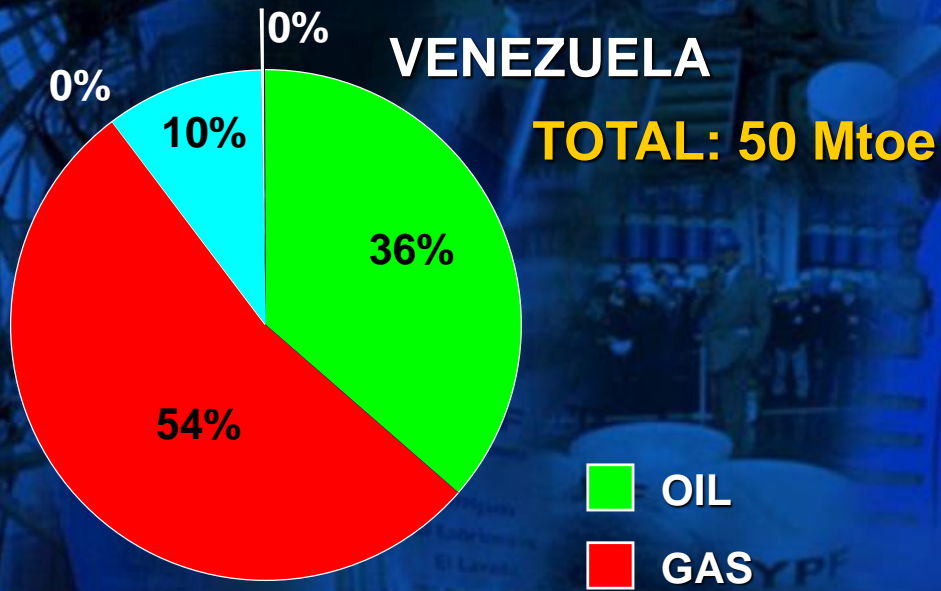


TOTAL: 55.1 Mtoe

TOTAL: 2147 Mtoe

Primary Energy Consumption

CURRENT OUTLOOK (1998)



- OIL
- GAS
- NUCLEAR
- HYDROELECTRIC
- COAL

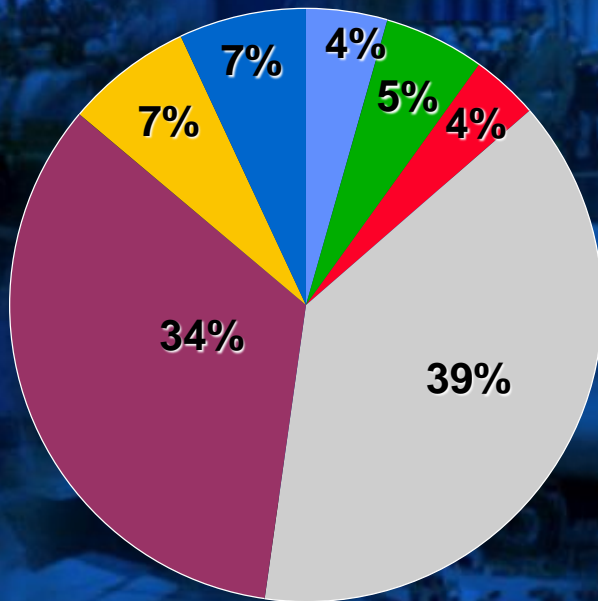
SOURCE: BP Statistical Review - June 1999

Latin American Natural Gas Reserves in the World



Proved reserves as of Dec 98

WORLD

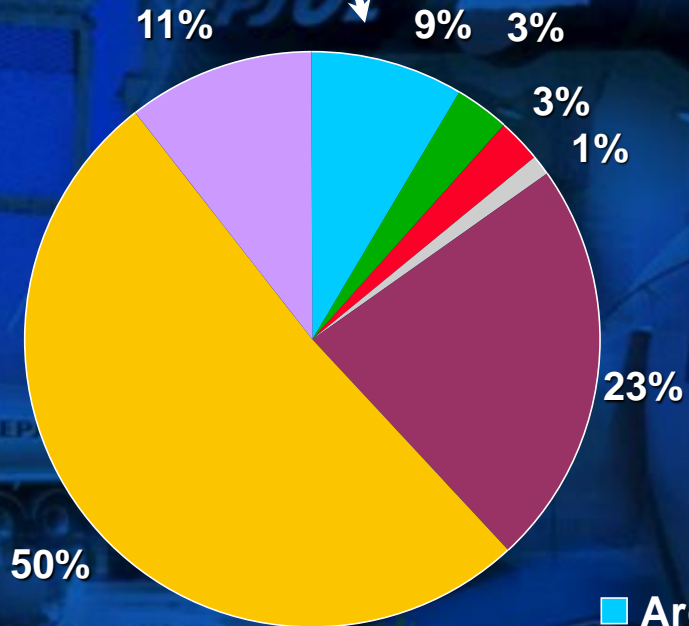


TOTAL: 5170 T cf

- N. America
- S.&Cent. America
- Europe
- F. Soviet Union
- Middle East
- Africa
- Asia Pacific

5%

LATIN AMERICA



TOTAL: 283 T cf

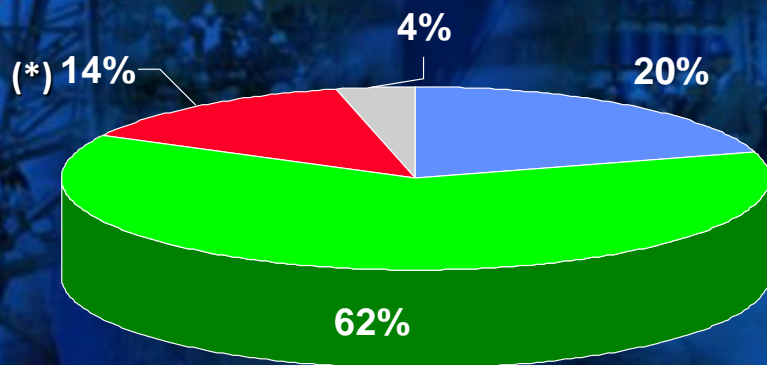
- Argentina
- Brazil
- Colombia
- Ecuador
- Mexico
- Venezuela
- Other

Gas Cono Sur



31 DIC. 1998

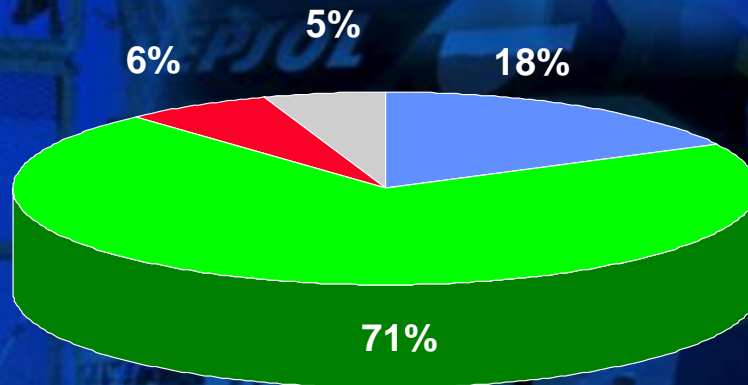
RESERVAS



■ BRASIL ■ ARGENTINA
■ BOLIVIA ■ CHILE

TOTAL: 1100 MMMm3
39 TCF

PRODUCCION



■ BRASIL ■ ARGENTINA
■ BOLIVIA ■ CHILE

TOTAL: 160 MMm3/d

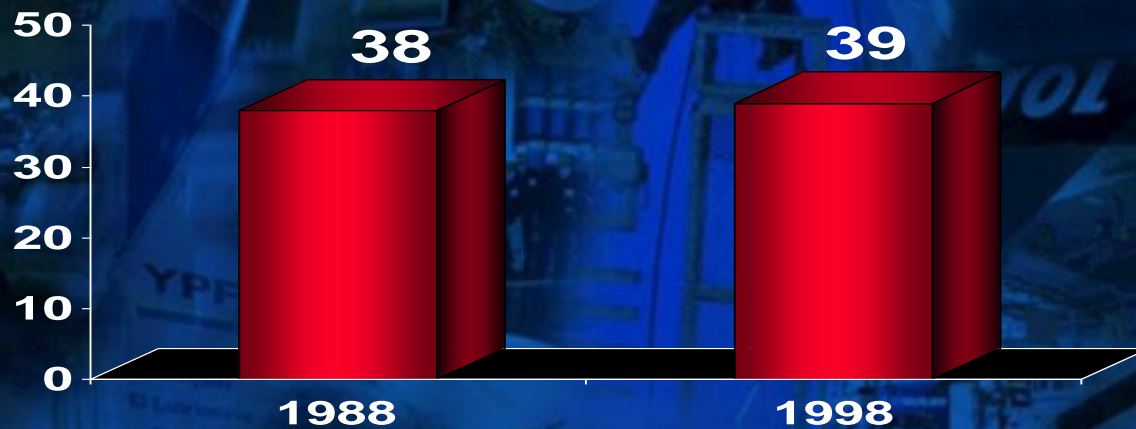
(*) No incluye últimas incorporaciones - 10 Tcf Comprobados adicionales

Gas Cono Sur



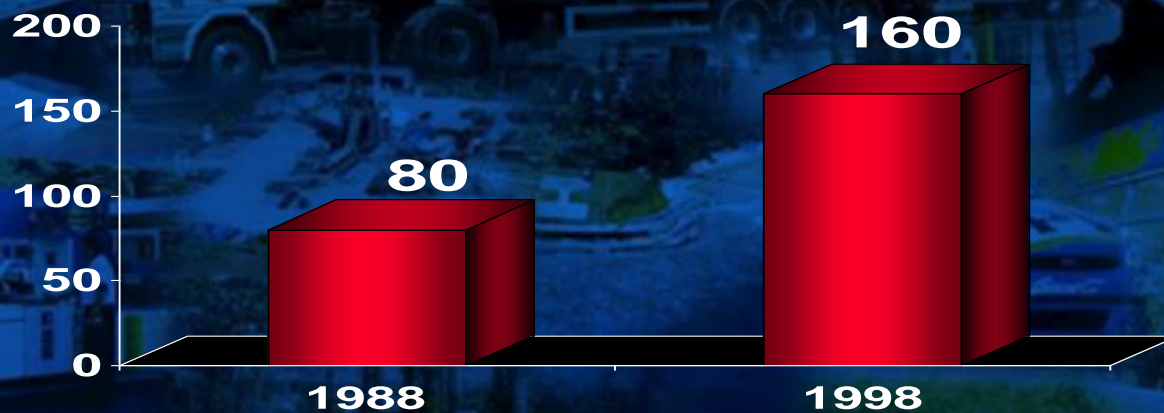
RESERVAS DE GAS

Tcf



PRODUCCION DE GAS

MMm3/día

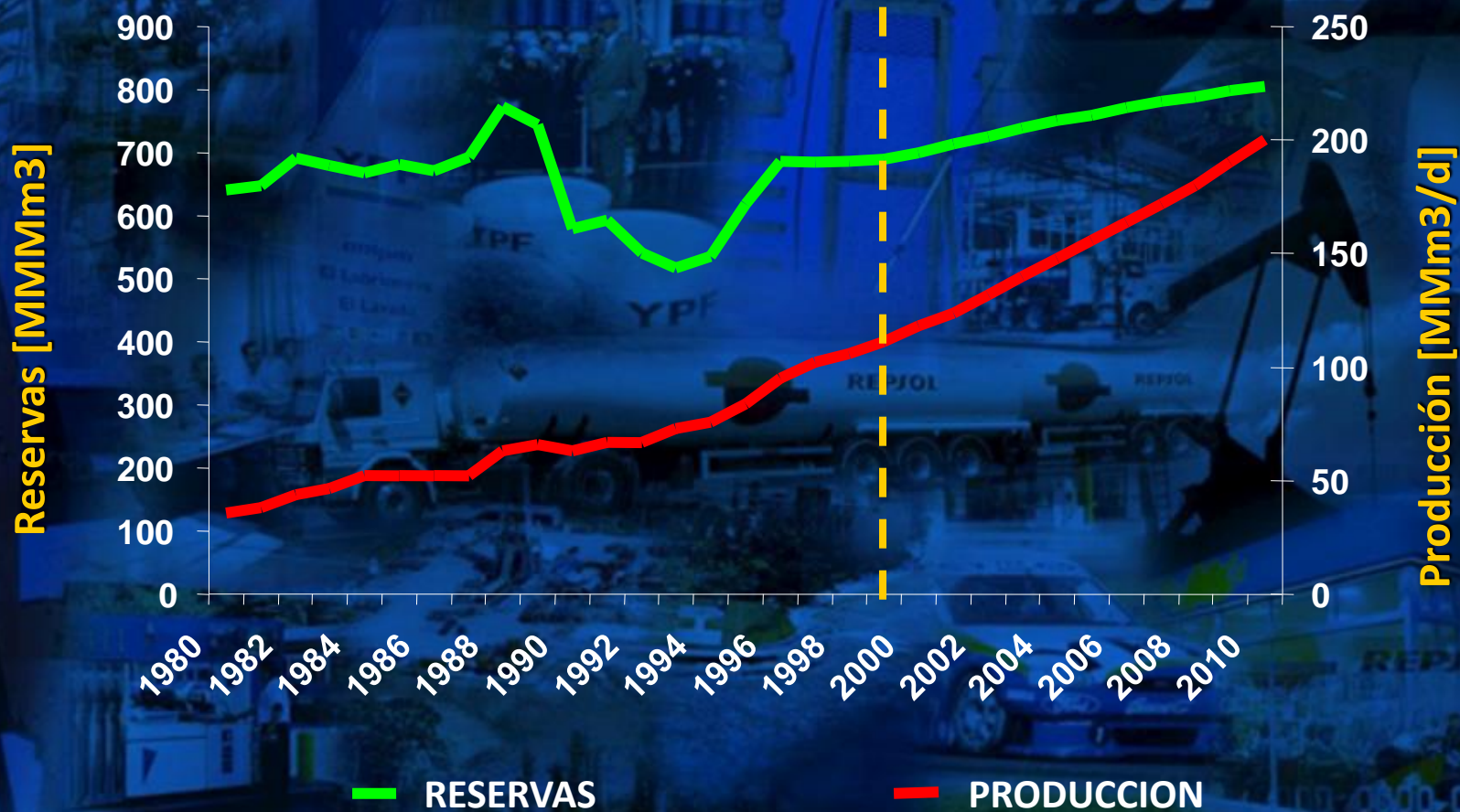


Evolución Reservas y Producción

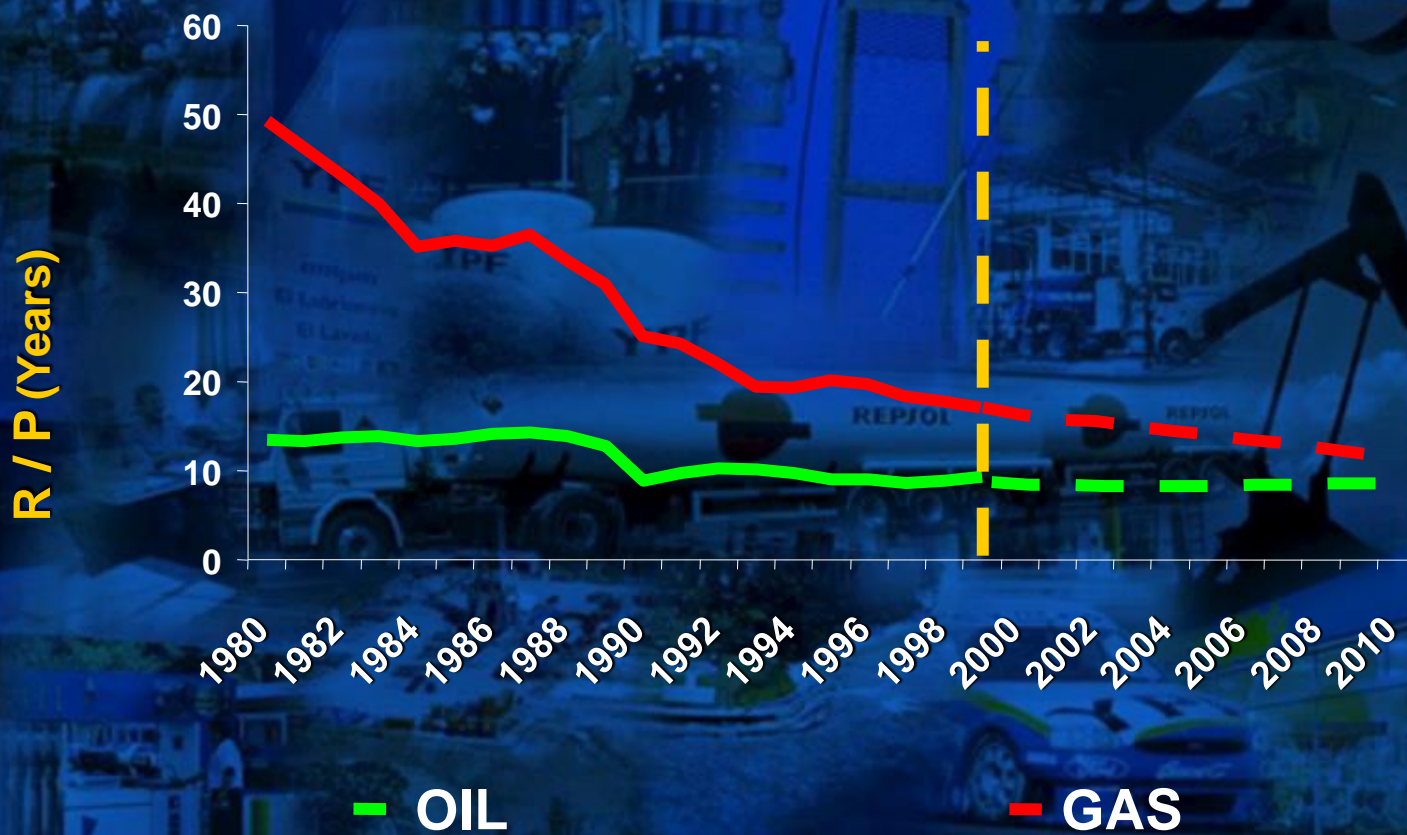


GAS

ARGENTINA



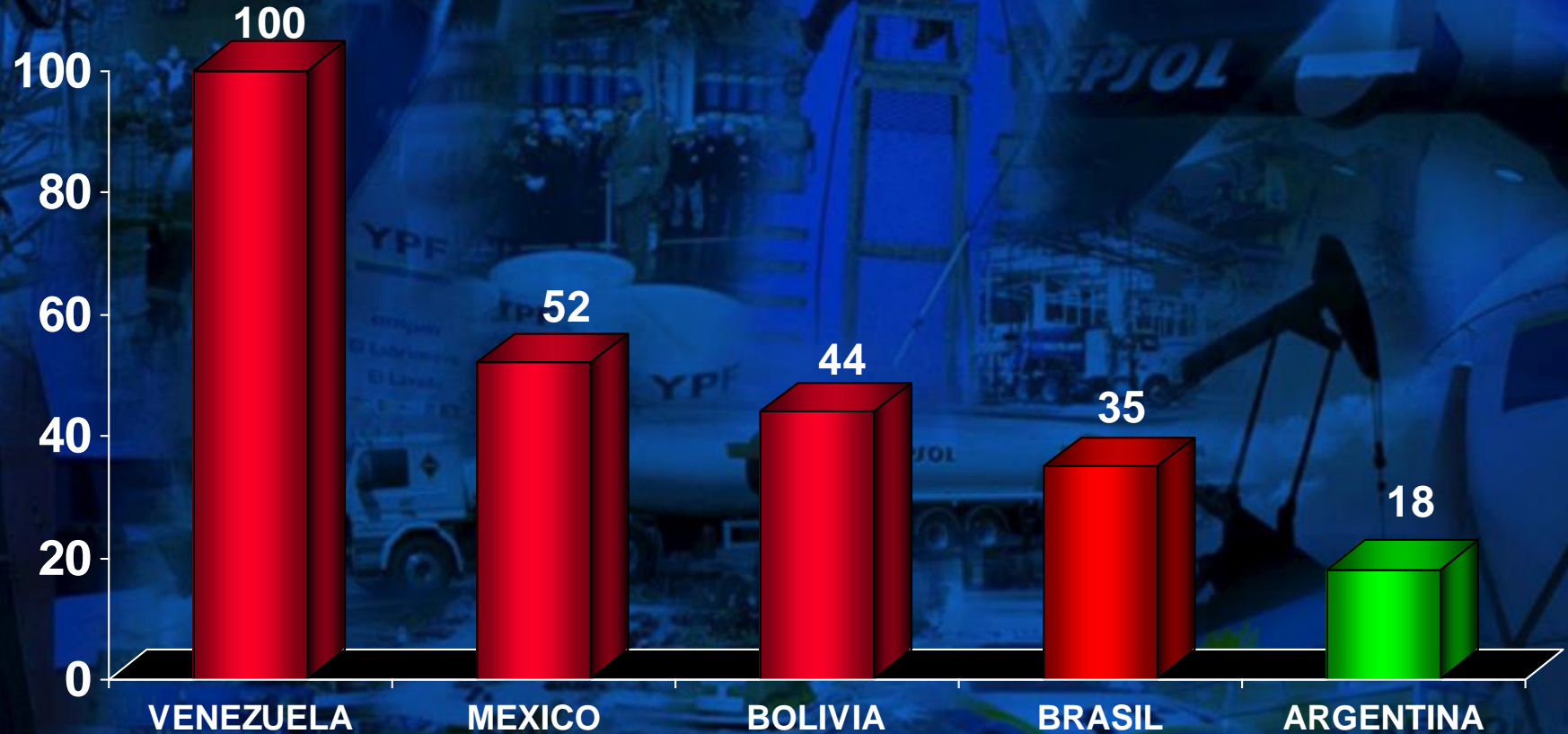
Reserves to Production Ratio in Argentina



Ratio R/P de Gas



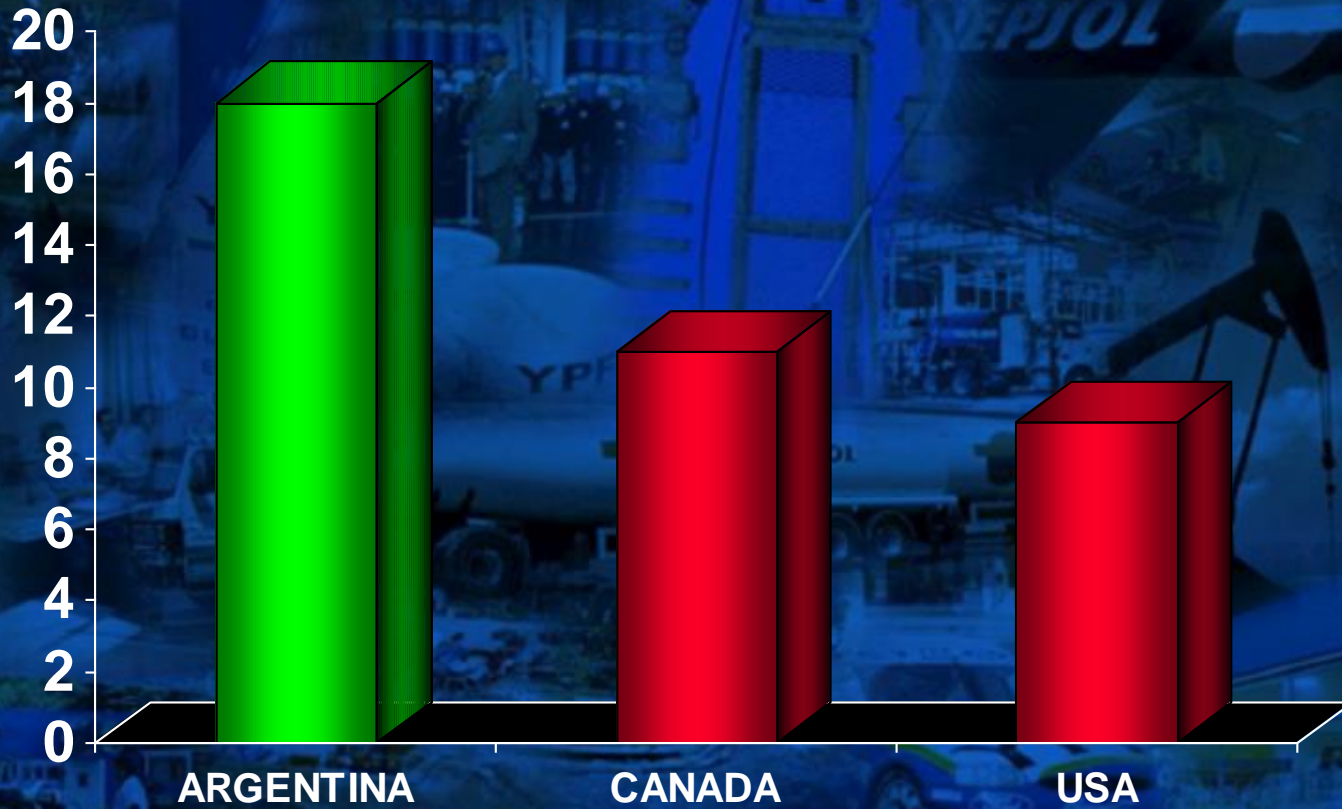
AÑOS



Ratio R/P de Gas



AÑOS



Cono Sur

Especulaciones Optimistas



- Consumo actual de gas actual en el cono sur aprox. 1.5 Tcf/yr
- Si Brasil consumiera el 50% de la energía de gas hay que adicionar aprox. 2 Tcf
- Reservas + Recursos unrisksed aproximado 90 Tcf
- Relacion pot. reservas/produccion=25 yr
- Relacion actual Res. cert./Prod = 33 yr

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