

A vertical collage on the left side of the slide. It features a yellow and black line graph at the top, a red and white oil rig in the middle, a large crowd of people at the bottom, and a black oil rig at the very bottom.

# **Energy Security in an International Context: The Challenges**

Herzliya Conference

January 2008

Ann Eggington

Office of Global Energy Dialogue

International Energy Agency

# Energy Security

DEMAND

ENVIRONMENT

AFFORDABILITY

RESERVES

INVESTMENT

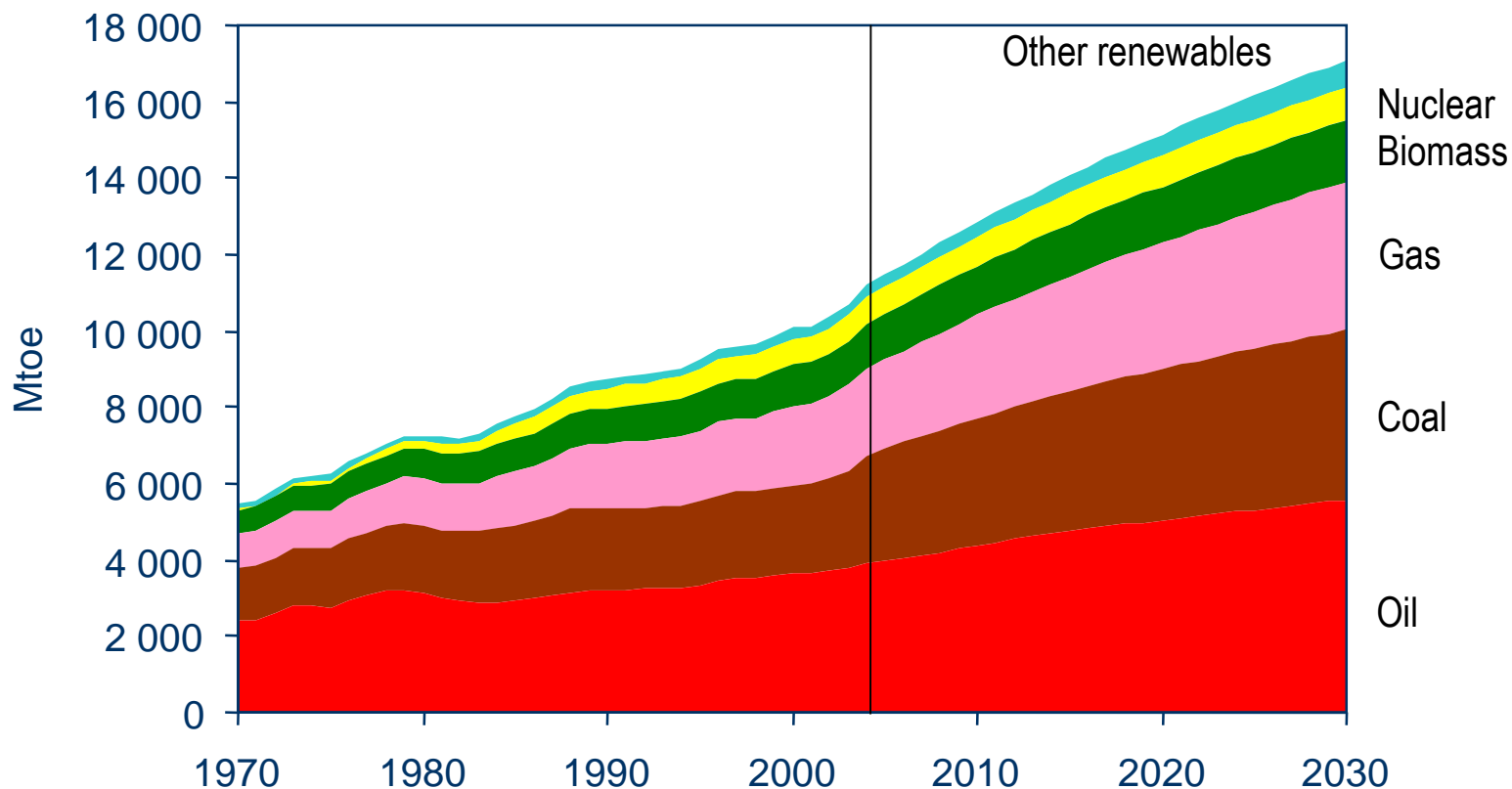
PHYSICAL SECURITY

TECHNOLOGY

GEOPOLITICS

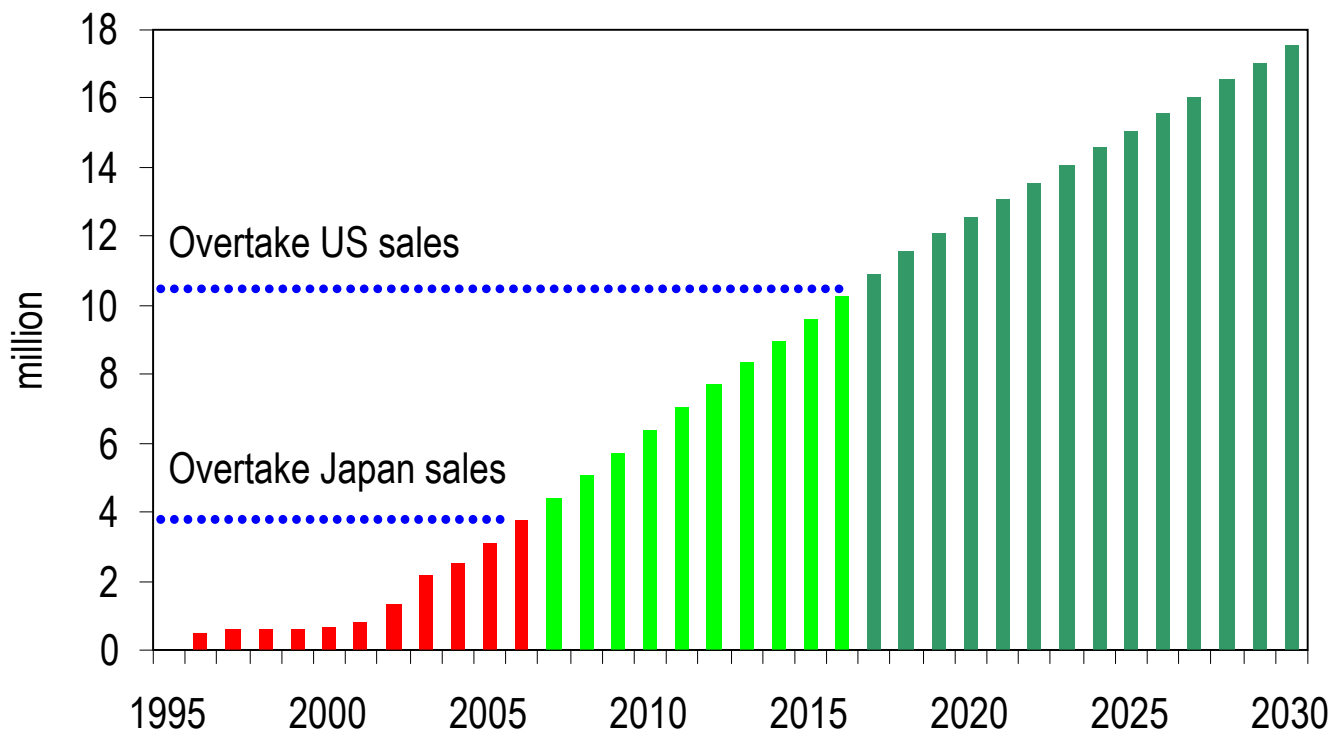


# Reference Scenario: World Primary Energy Demand



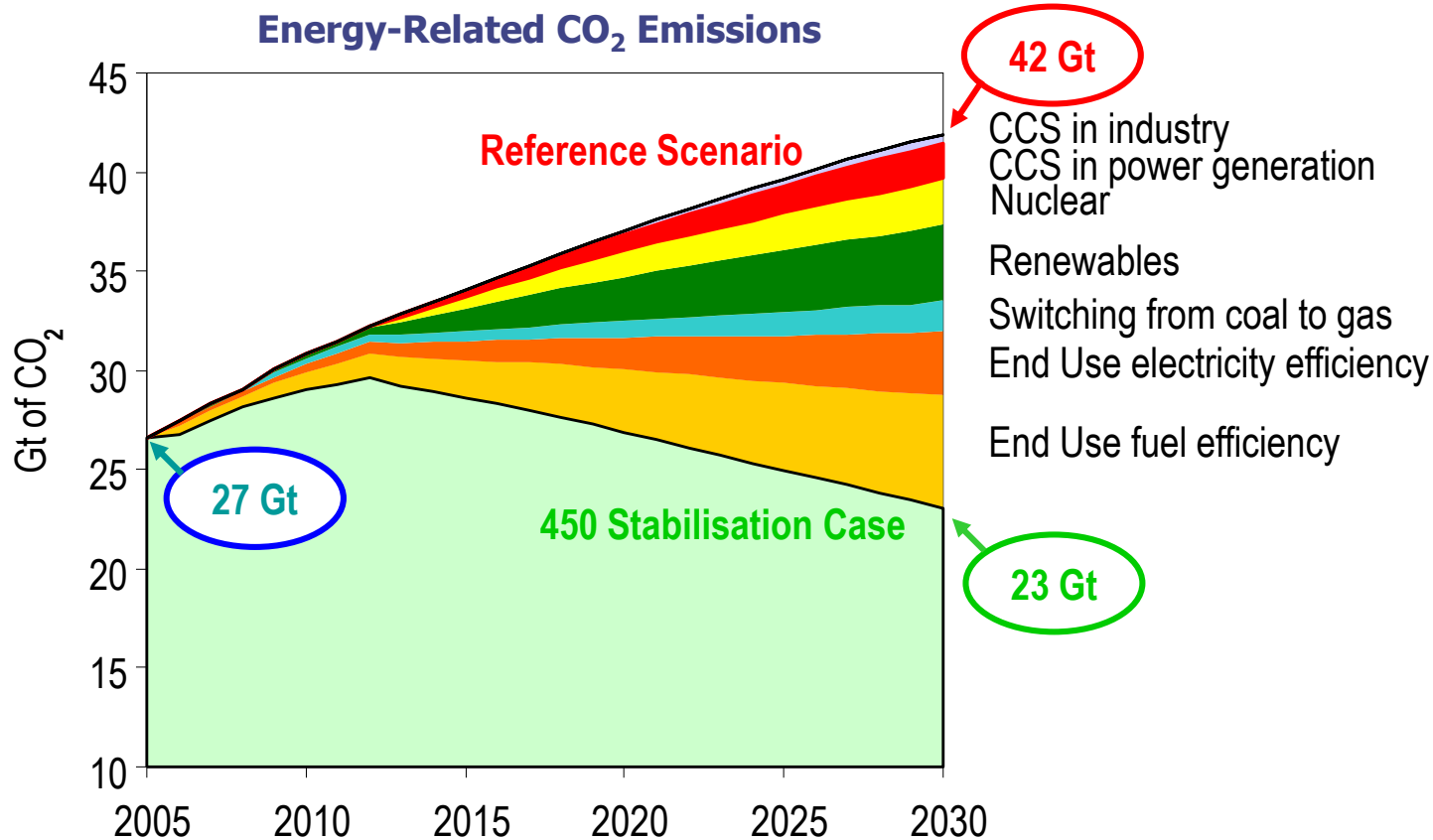
*Global demand grows by more than half over the next quarter of a century, with coal use rising most in absolute terms*

# Reference Scenario: New Light-Duty Vehicle Sales in China



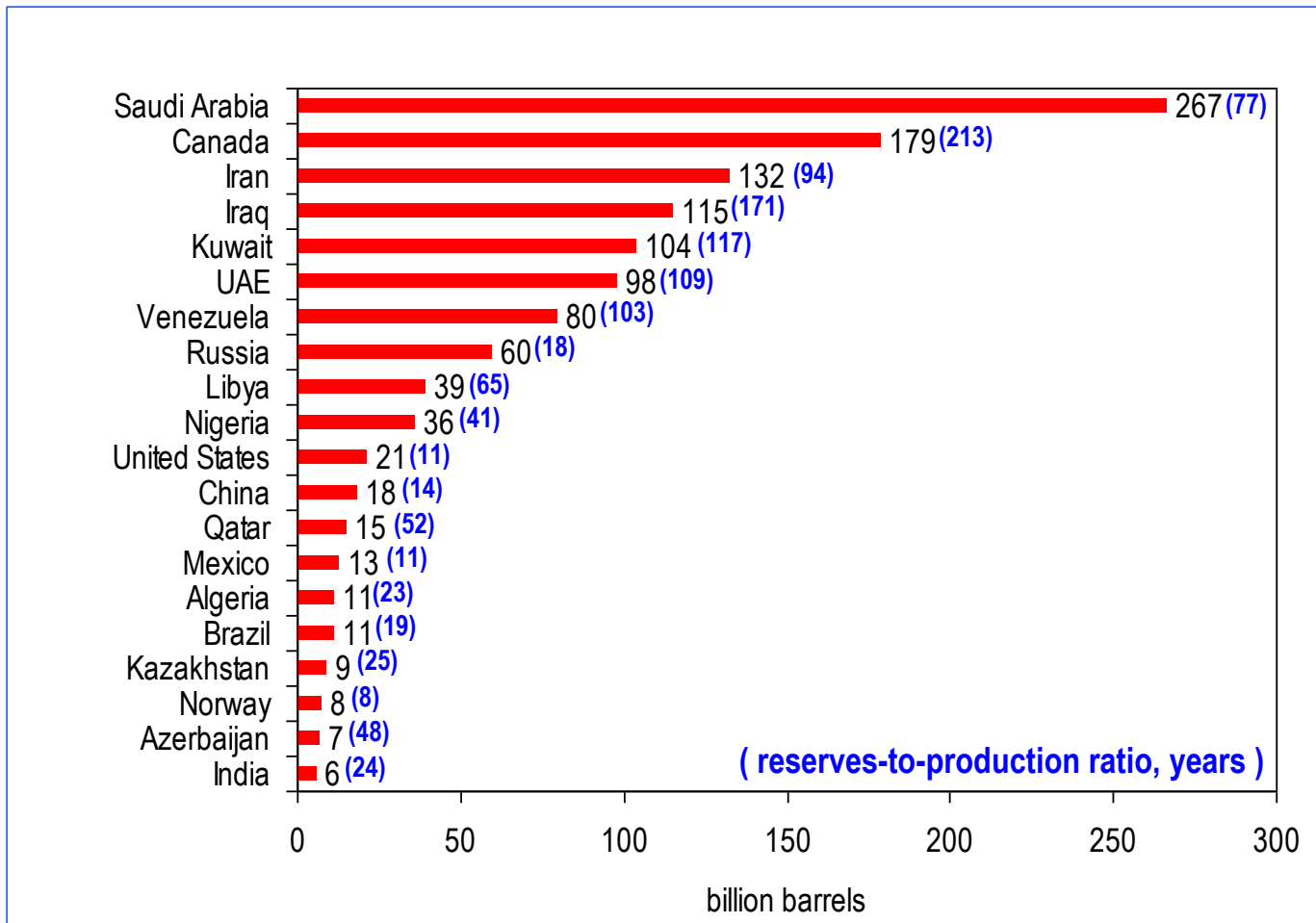
***China's oil imports jump from 3.5 mb/d in 2006 to 13 mb/d in 2030 – as car ownership increase 7-fold to 140 per 1 000 people***

# CO<sub>2</sub> Emissions - 450 Stabilisation Case



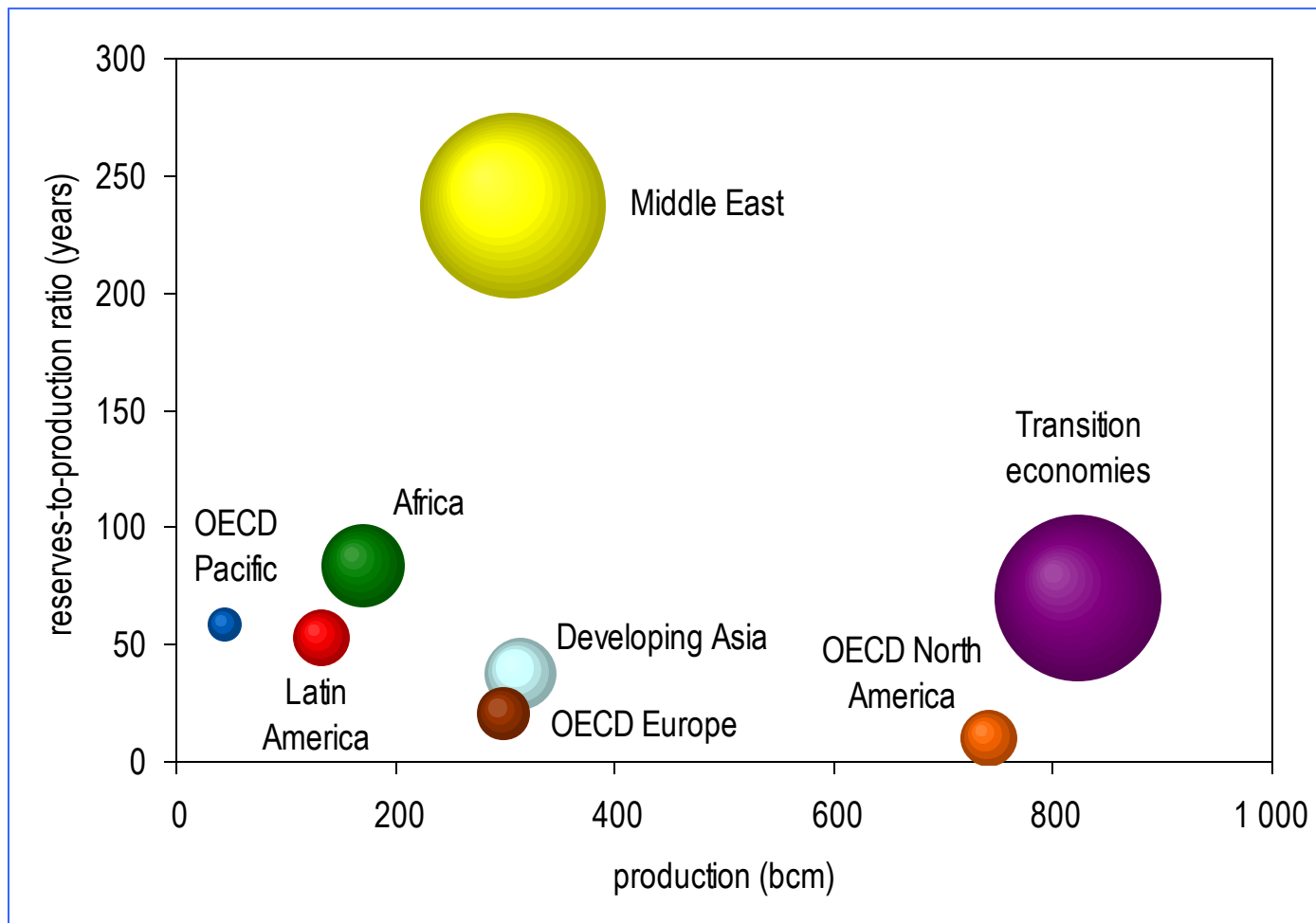
**By 2030, emissions are reduced to some 23 Gt,  
a reduction of 19 Gt compared with the Reference Scenario**

# Proven Oil Reserves by Region, end-2005

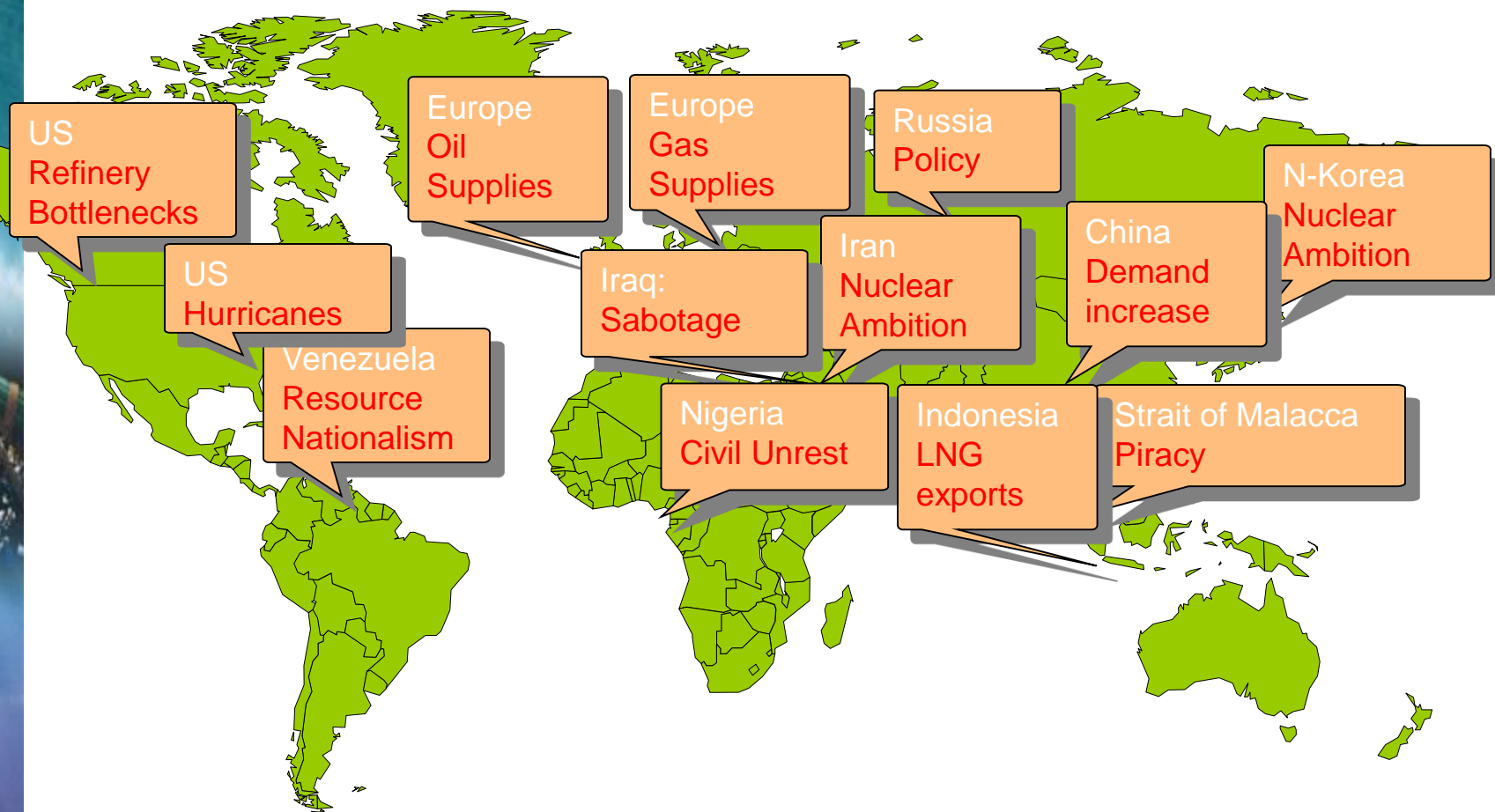




# Proven Gas Reserves and Production by Region



# A Rocky Time for Energy Markets

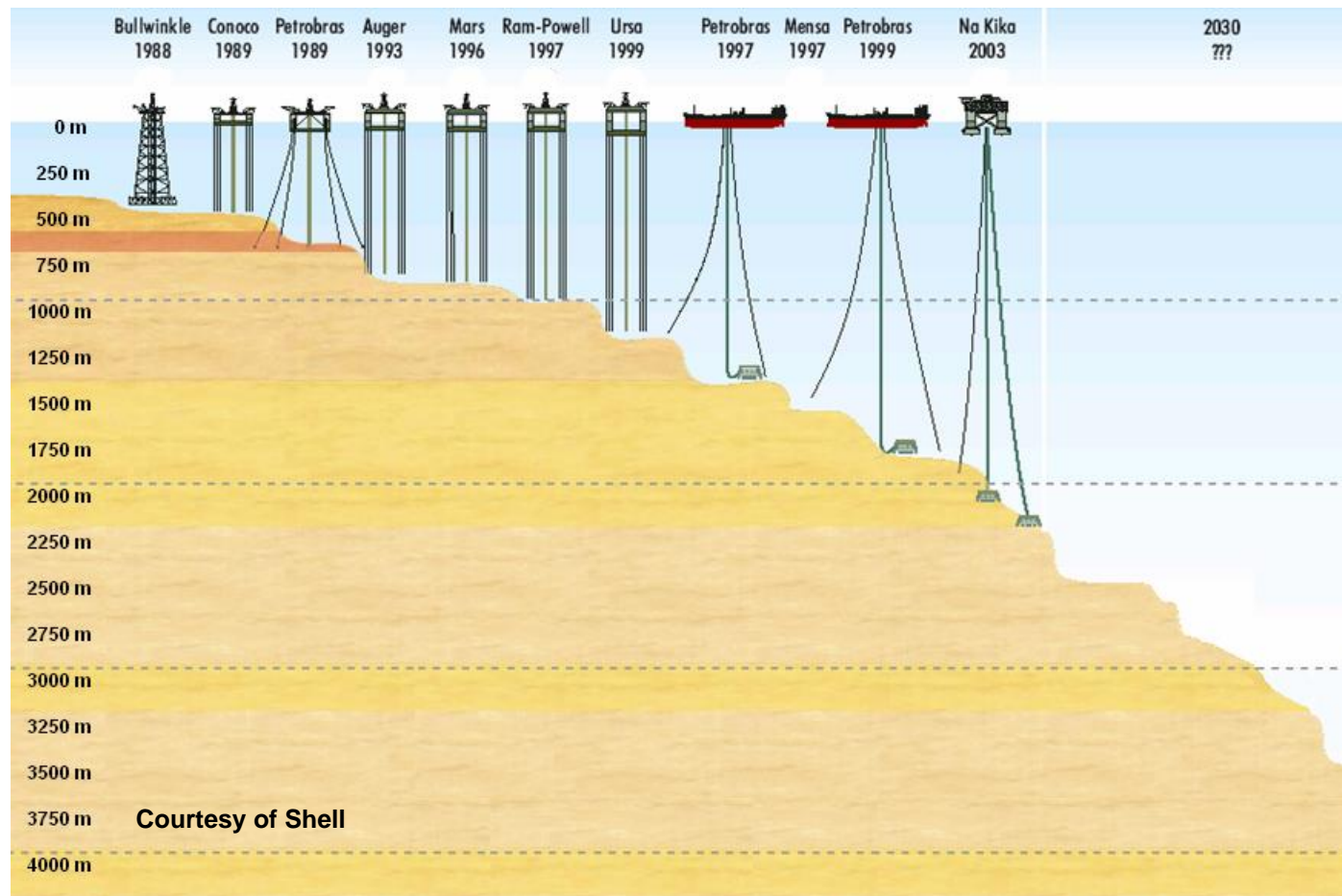




# TOWARDS A SOLUTION

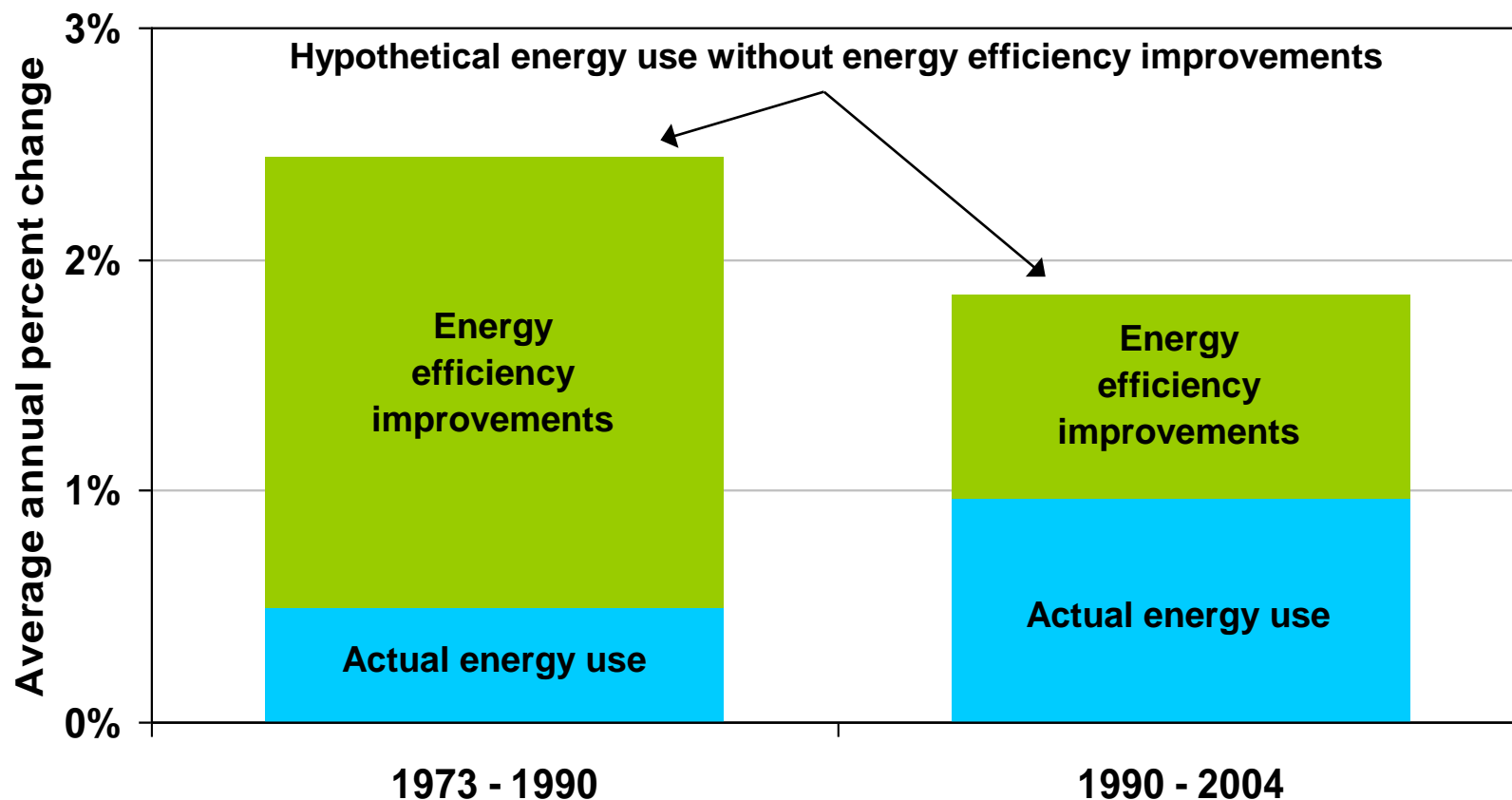
- Improved transparency
- Technology
- Energy efficiency
- AND...

# Ongoing Evolution of Deepwater Technology



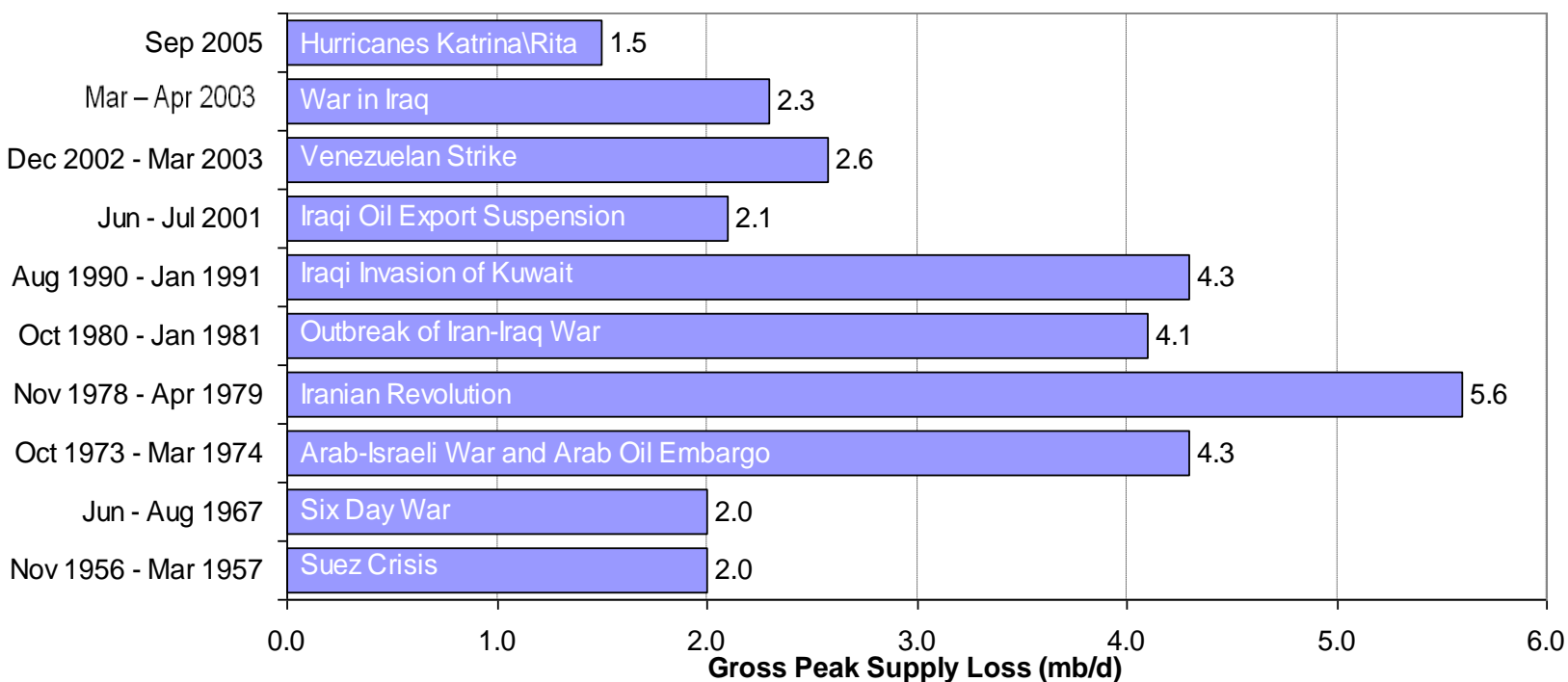
*The industry's track record in pushing the limits of technology to access deepwater resources is impressive – and will continue towards reservoirs in greater depths and farther away from the coastline.*

# Promote energy efficiency: The essential first step



**Since 1990, the rate of energy efficiency improvement in IEA countries has been less than 1% per year – much lower than in previous decades.  
We must - and we can - do better!**

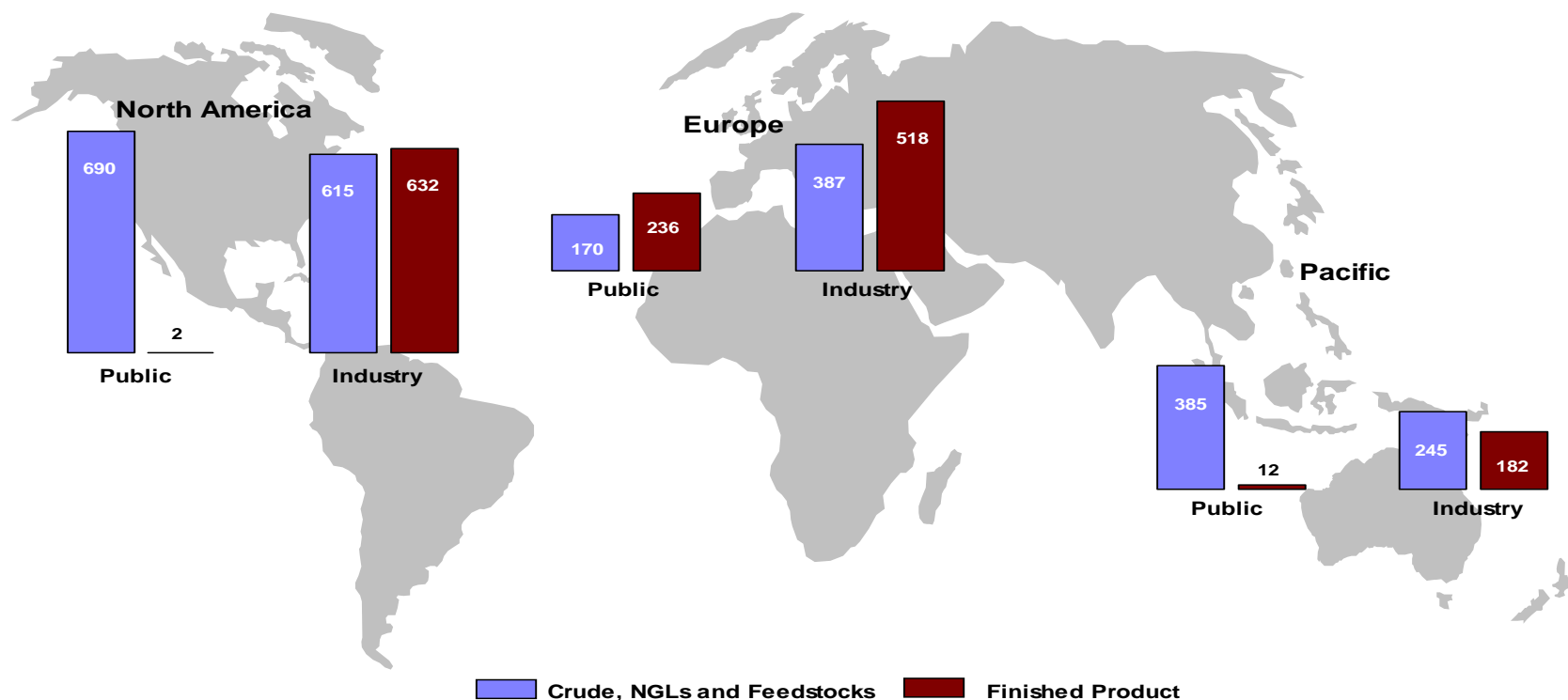
# Major World Oil Supply Disruptions



# Stockholding in IEA Countries

## Current stocks

### Total IEA Stocks by Region (end June 2007)

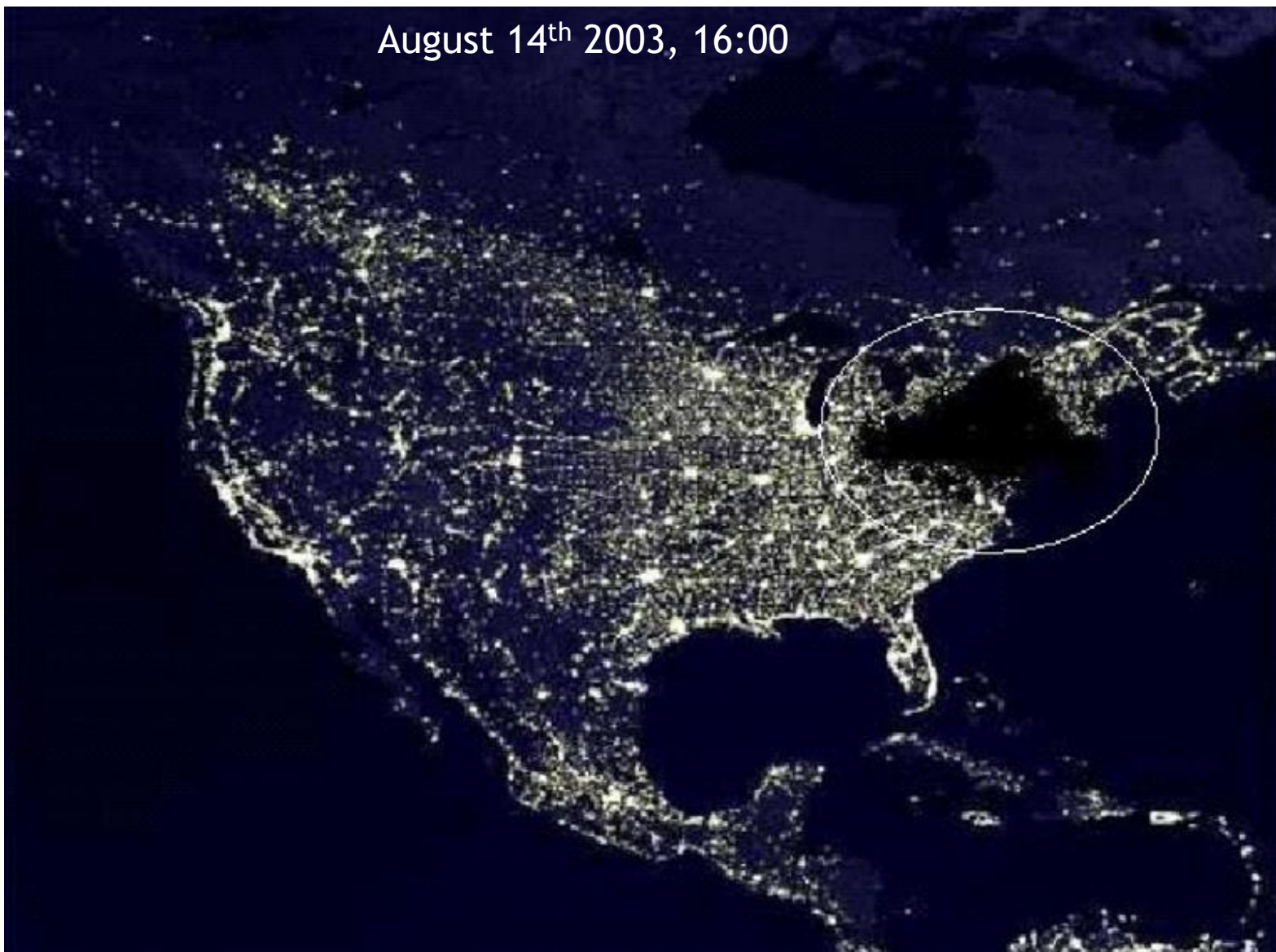


Unit: million barrels



# North American Blackout

August 14<sup>th</sup> 2003, 16:00





# Italy left in the Dark

28<sup>th</sup> September 2003, 03:30



# The Welfare Gap – Africa Permanently in the Dark

