



The Role of Balkans and Greece as a Corridor of Energy Supplies to Europe

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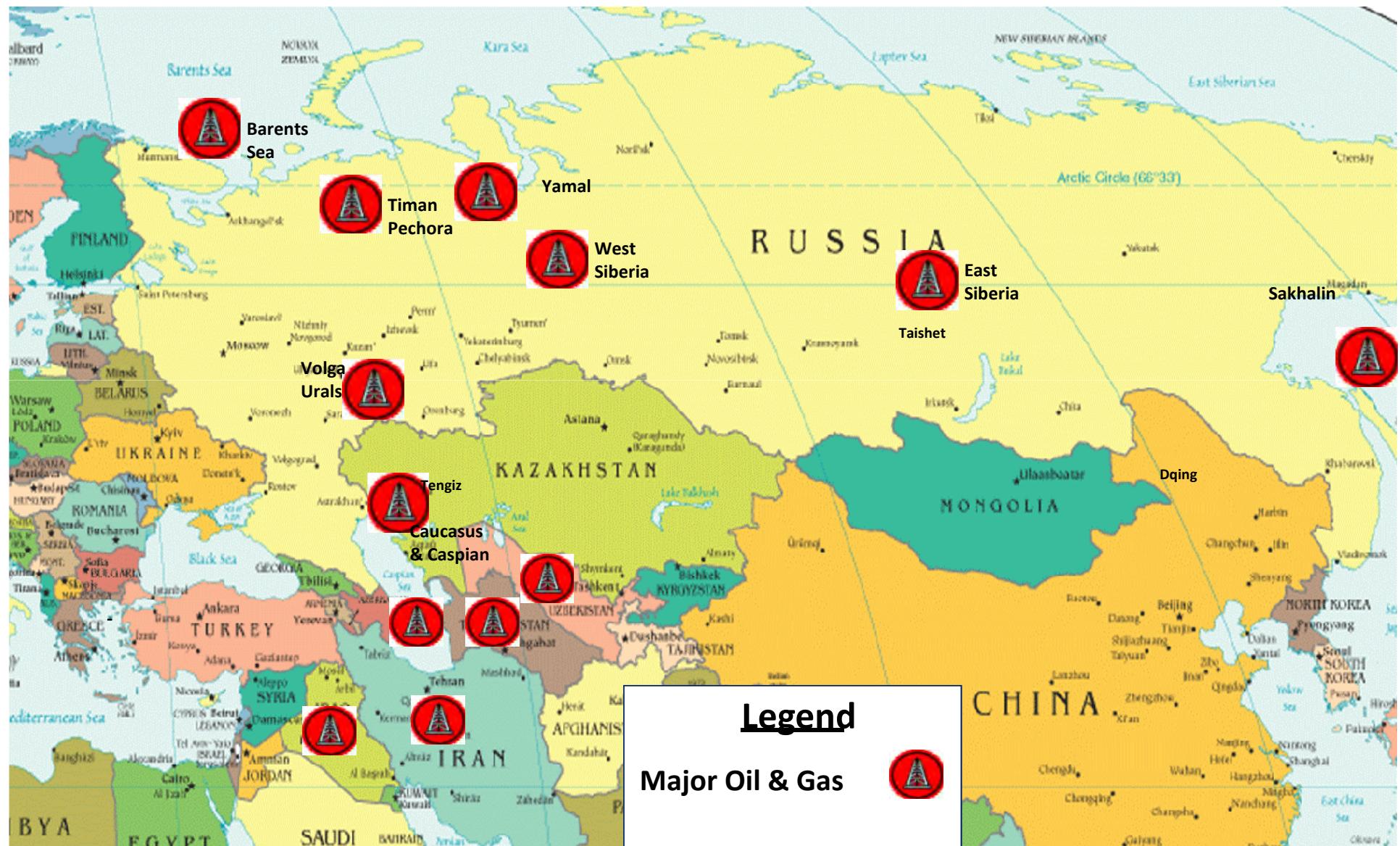
**The Fourth South-East Europe Energy Dialogue
June 3-4, 2010, Thessaloniki**

The role of Balkans and Greece is very important for the energy supplies to Europe.

A lot of important energy hydrocarbons export routes are passing already or are planned to pass through the Balkans bringing into the international markets:

Russian and Kazakh crude oil, Russian, Turkmen, Azeri, Kazakh and Iranian natural gas, etc.

Major Oil and Gas Fields



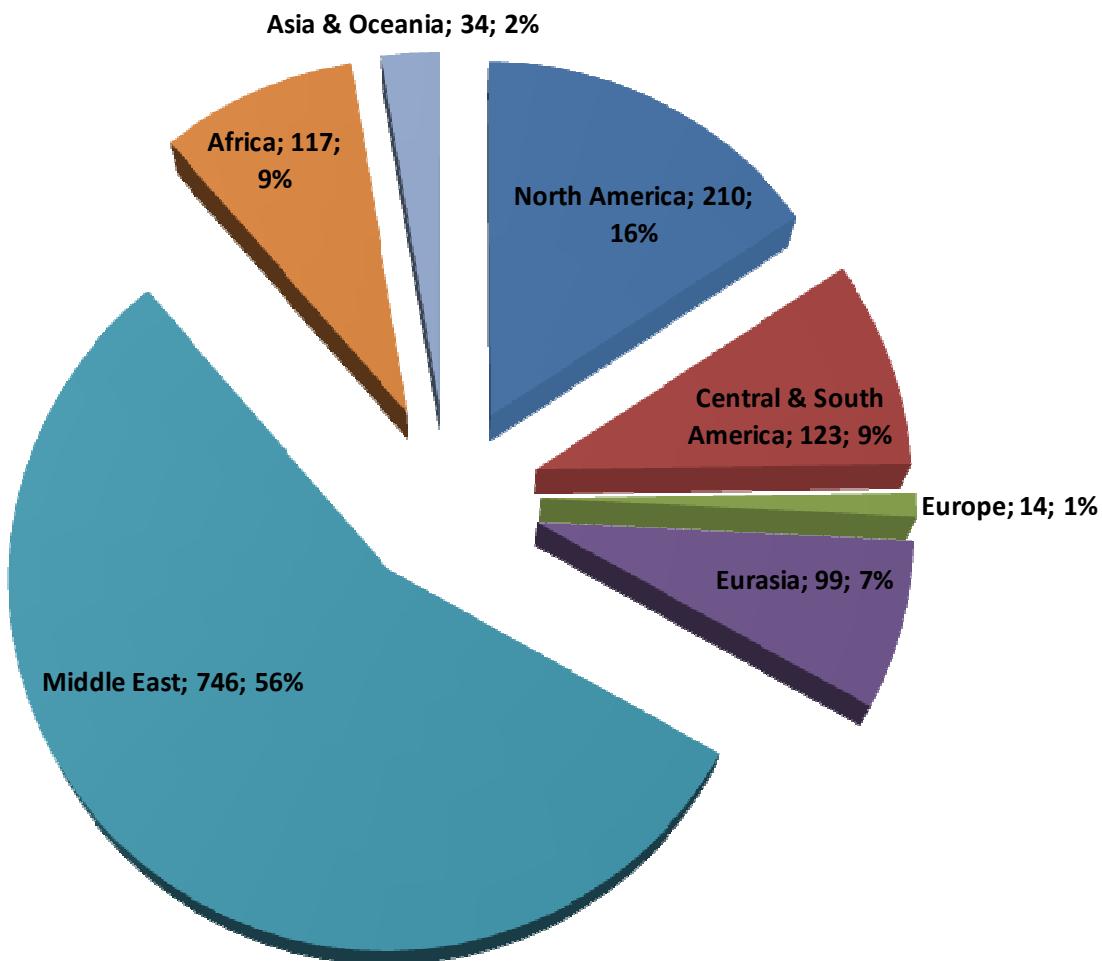
June 2010

Major Oil and Gas Fields



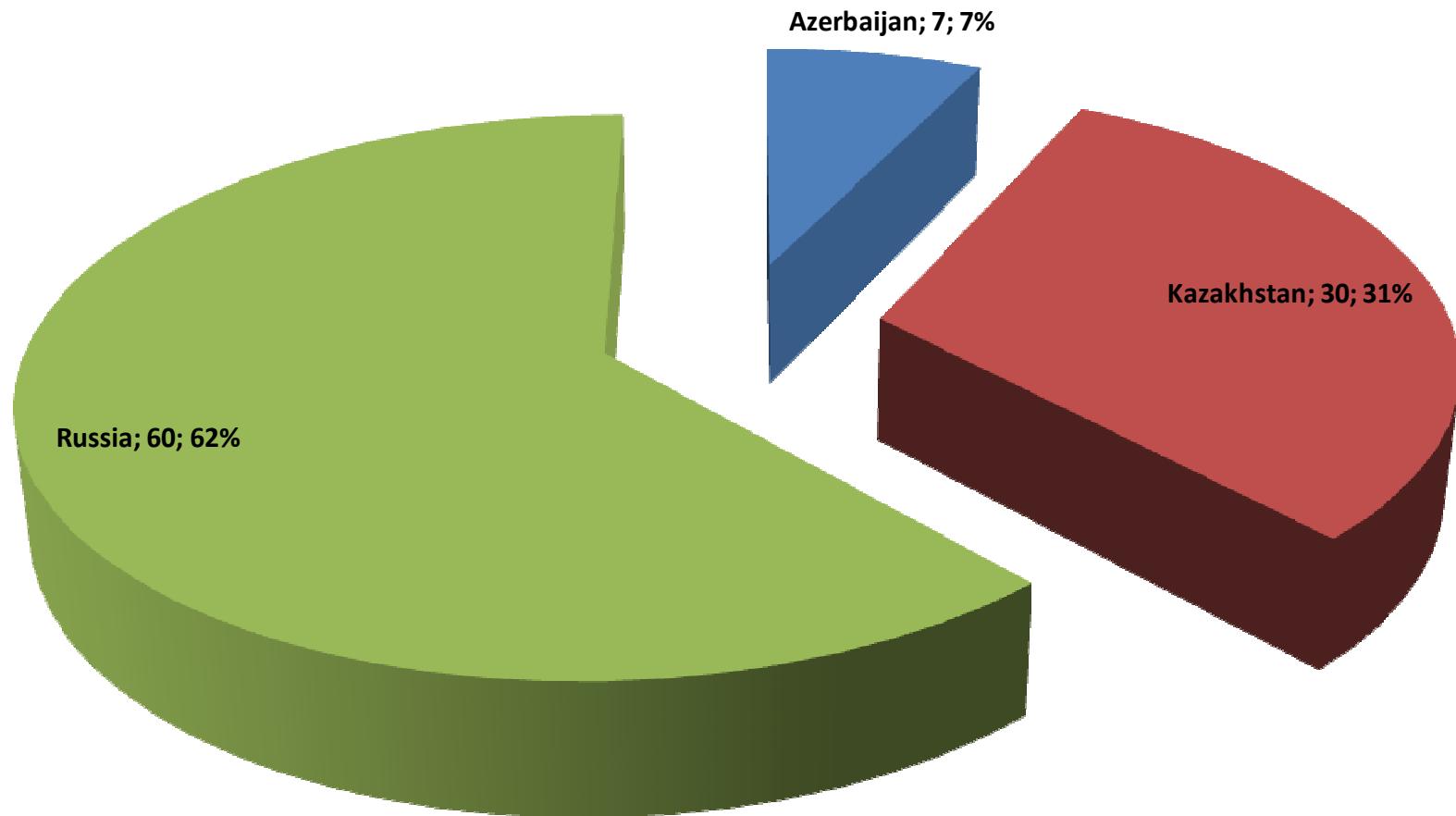
World Proved Reserves of Oil

Source: EIA and Oil & Gas Journal, January 2009
(Billion Barrels)



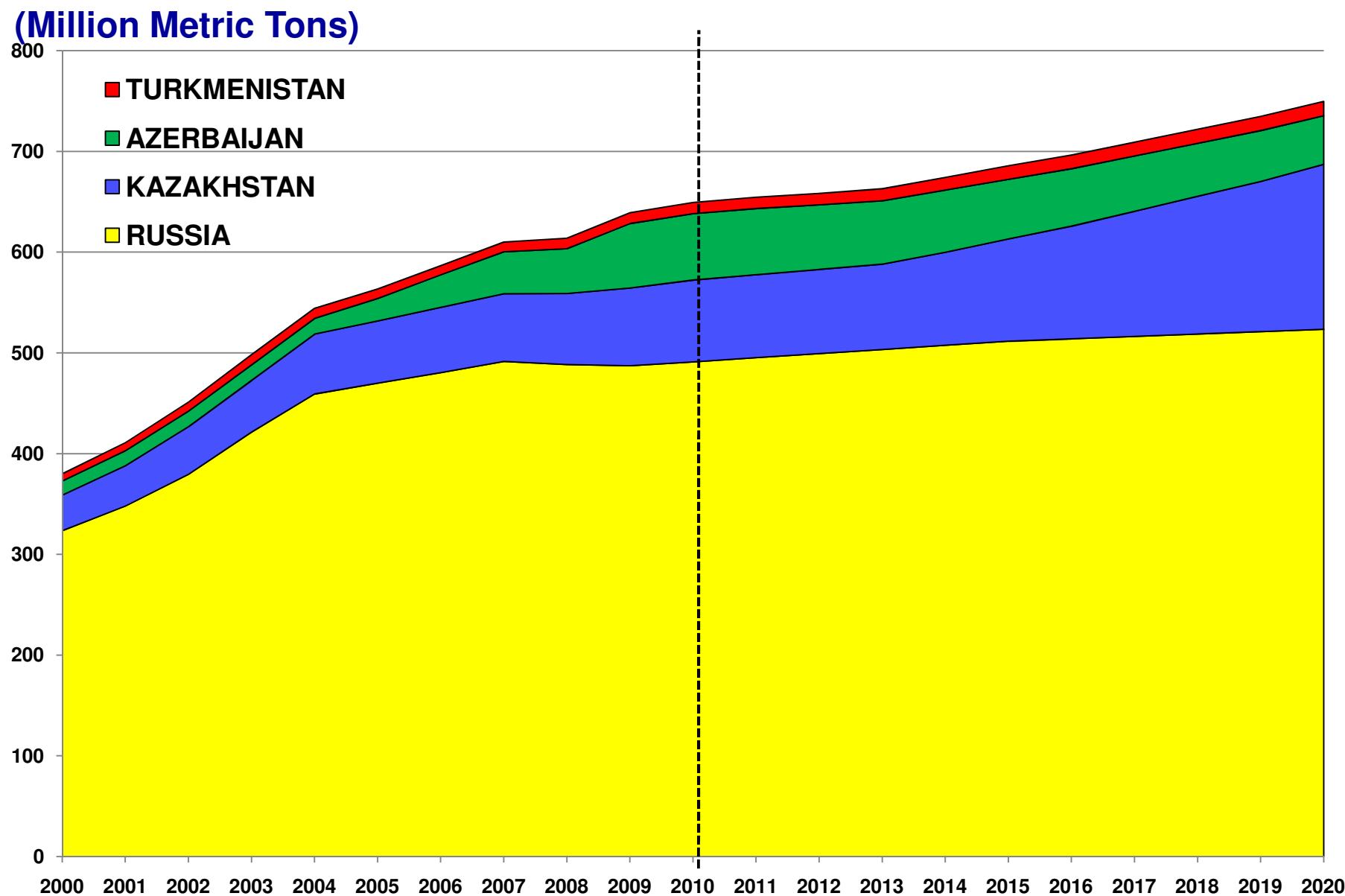
Eurasian Proved Reserves of Oil

Source: EIA and Oil & Gas Journal, January 2009
(Billion Barrels)



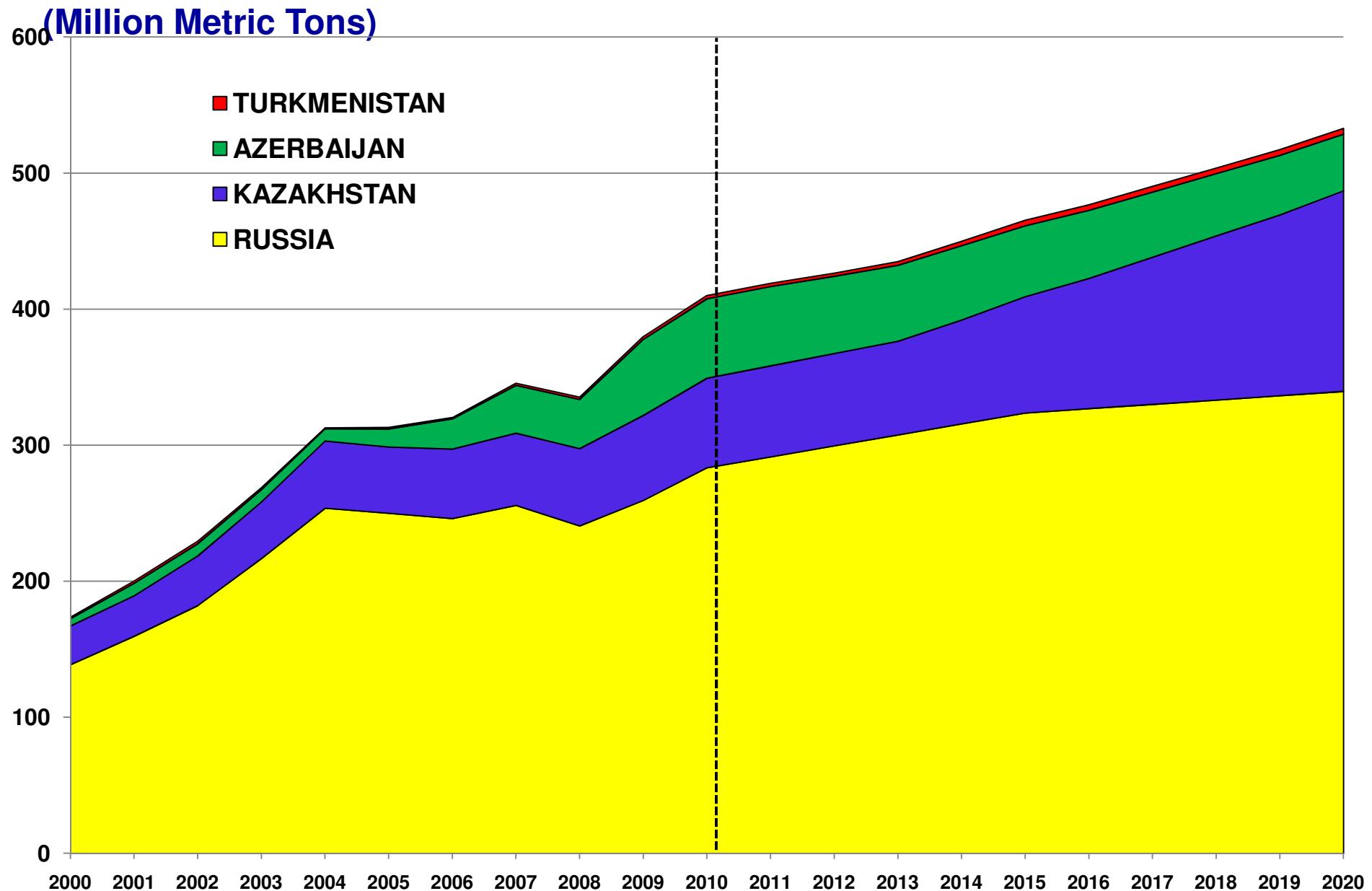
Russian and Caspian Crude Oil Production

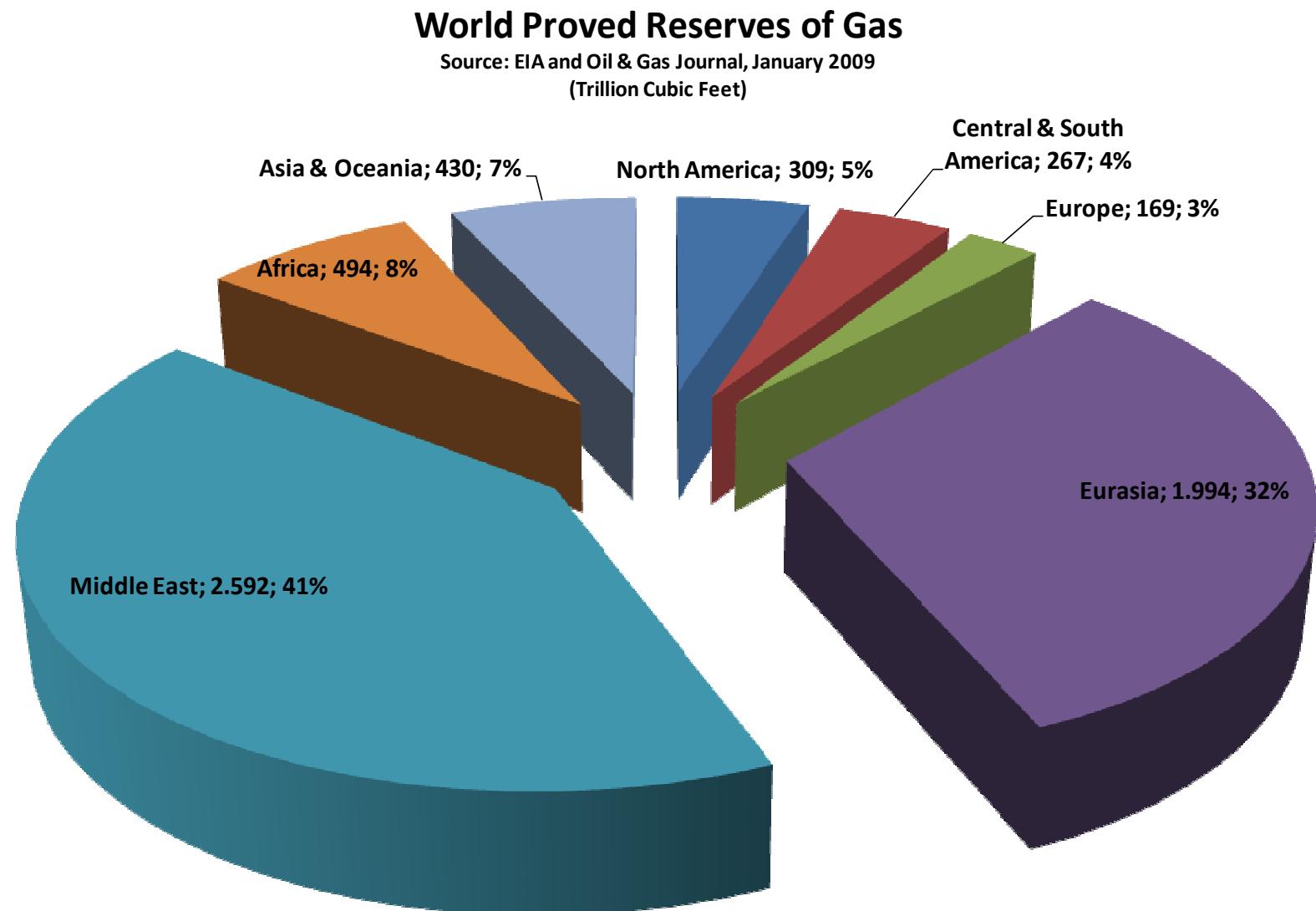
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Russian and Caspian Crude Oil Exports

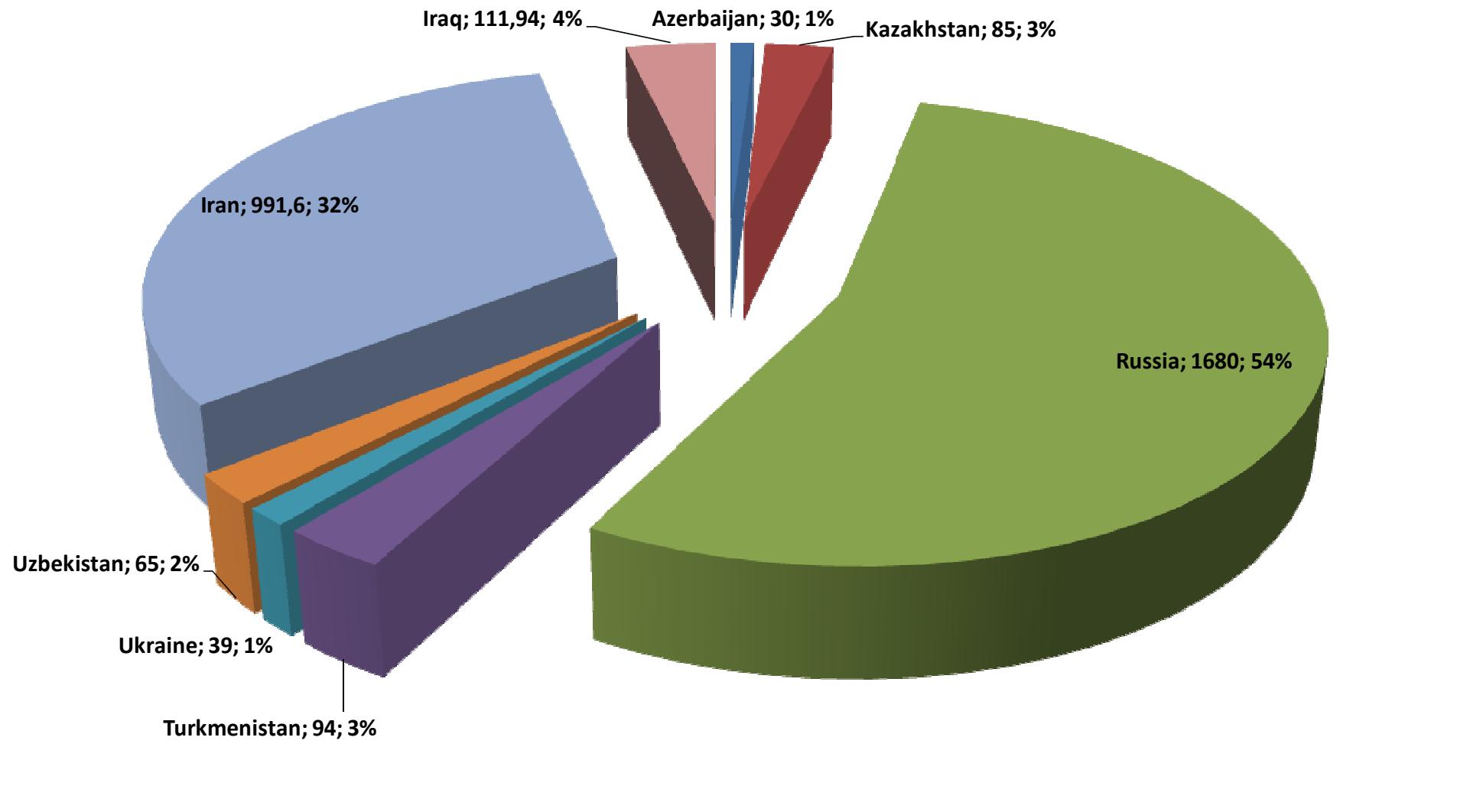
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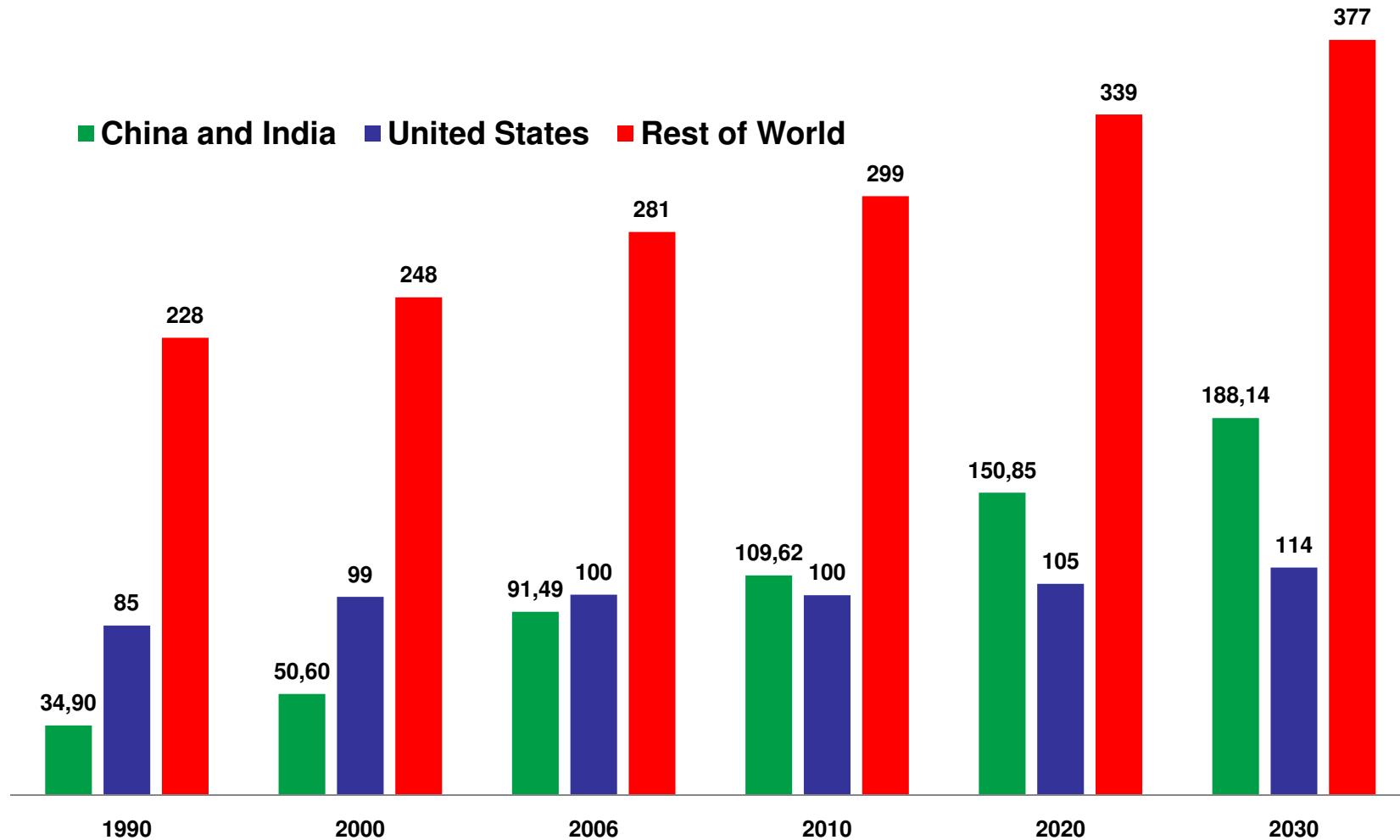
Eurasian, Iranian and Iraqi Proved Reserves of Gas

Source: EIA and Oil & Gas Journal, January 2009
(Trillion Cubic Feet)

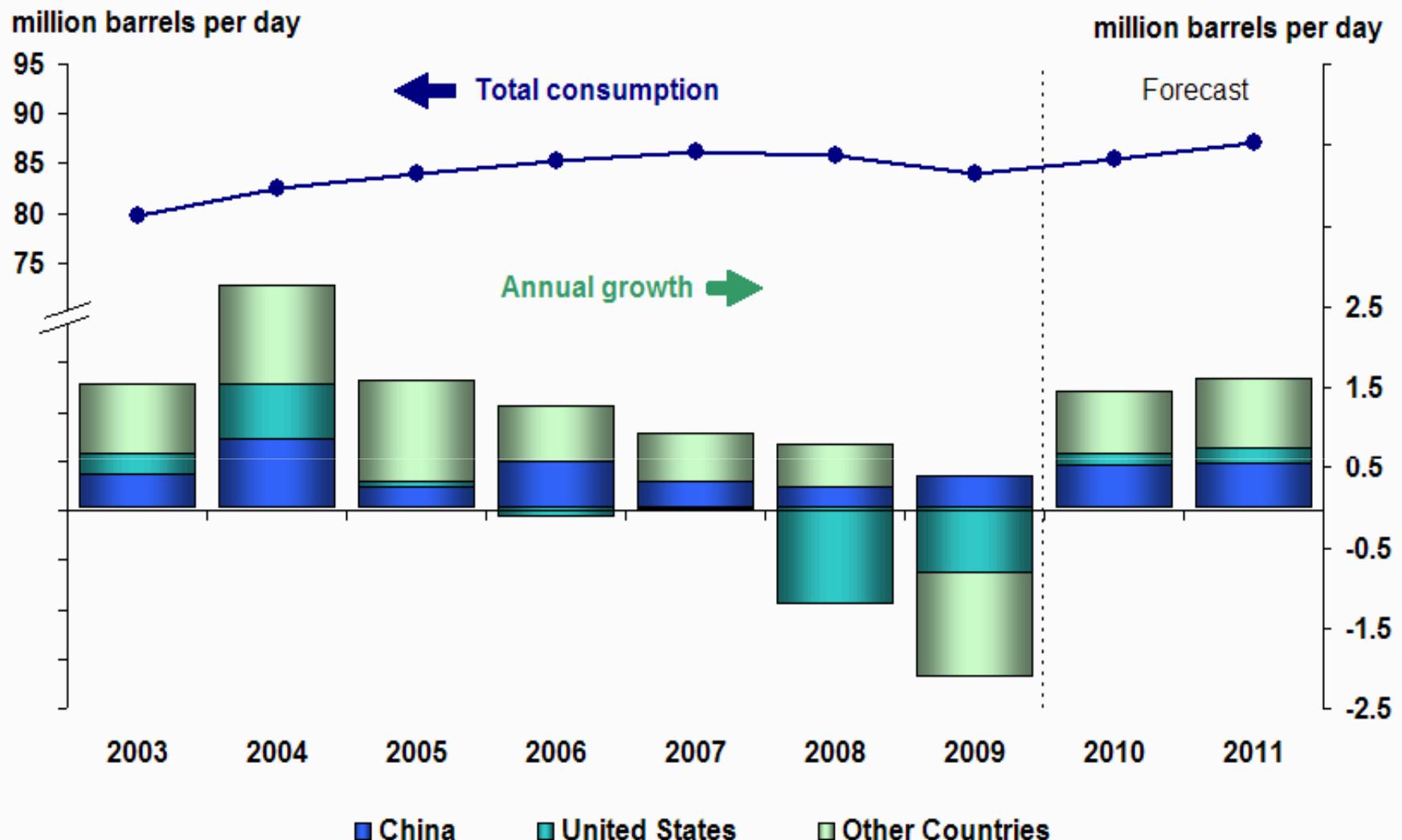


Market Energy by Use by Region 1990÷2030

Report #:DOE/EIA-0484(2009)
(Quatrillion Btu)



World Liquid Fuels Consumption

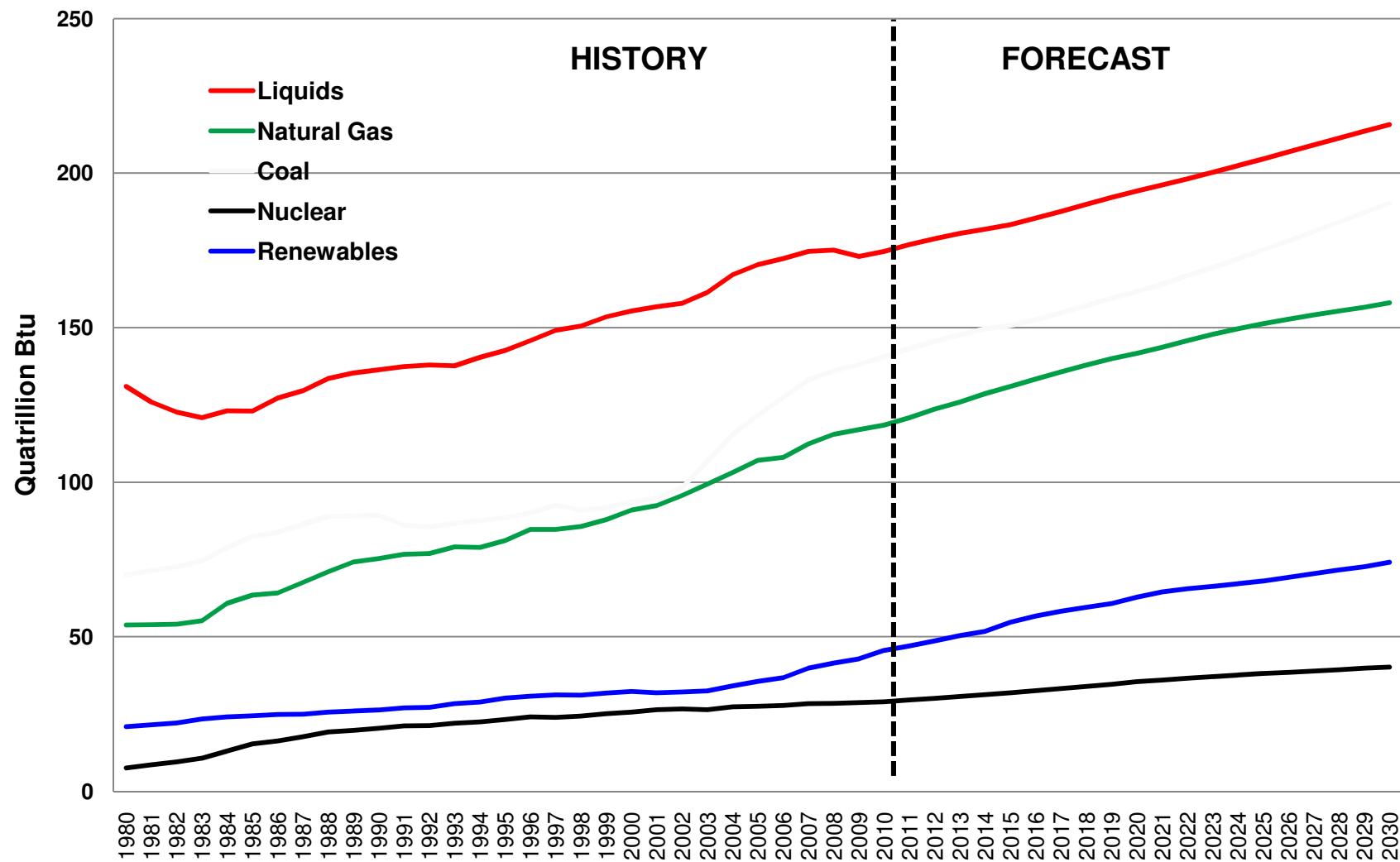


Source: Short-Term Energy Outlook, April 2010

eia U.S. Energy
Information
Administration

World Marketed Energy by type of Fuel 1980÷2030

Report #:DOE/EIA-0484(2009)

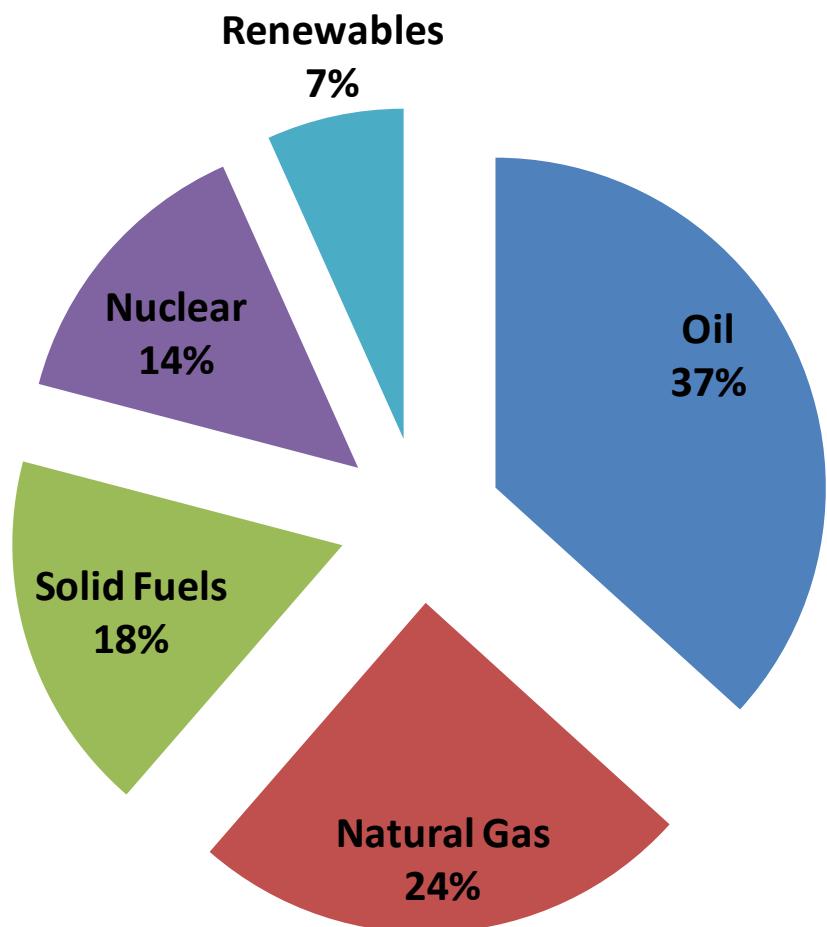


The EU Energy Consumption Mixture

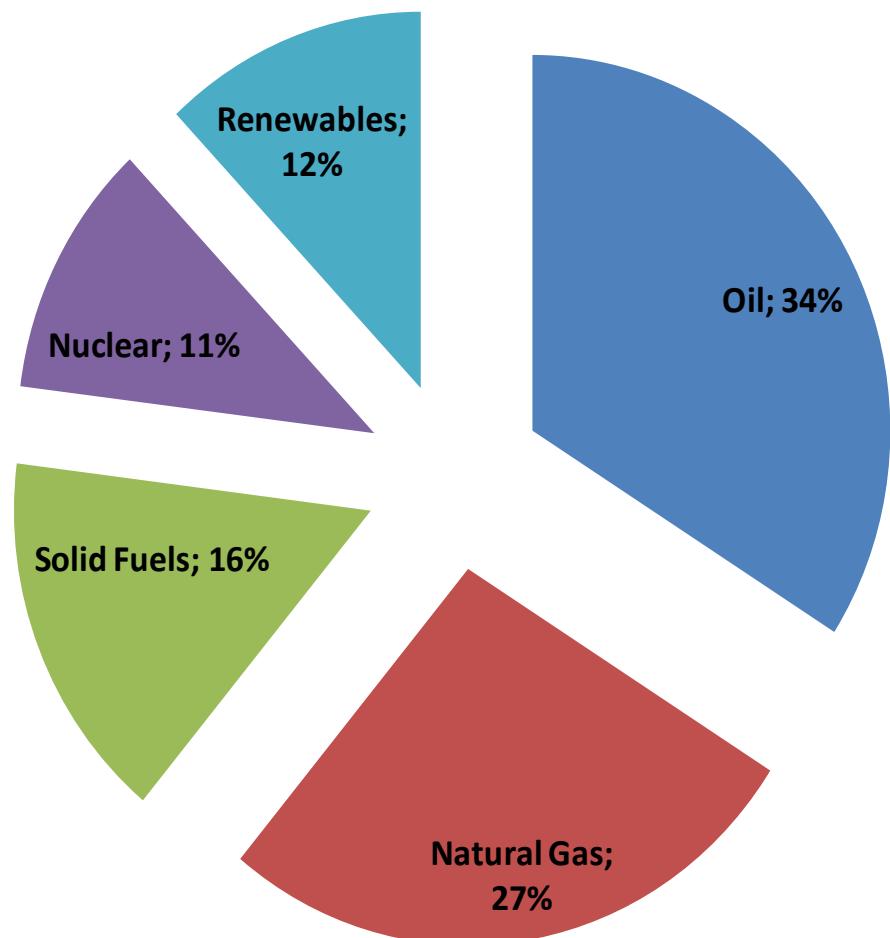
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(Source: Eurostat)

2005

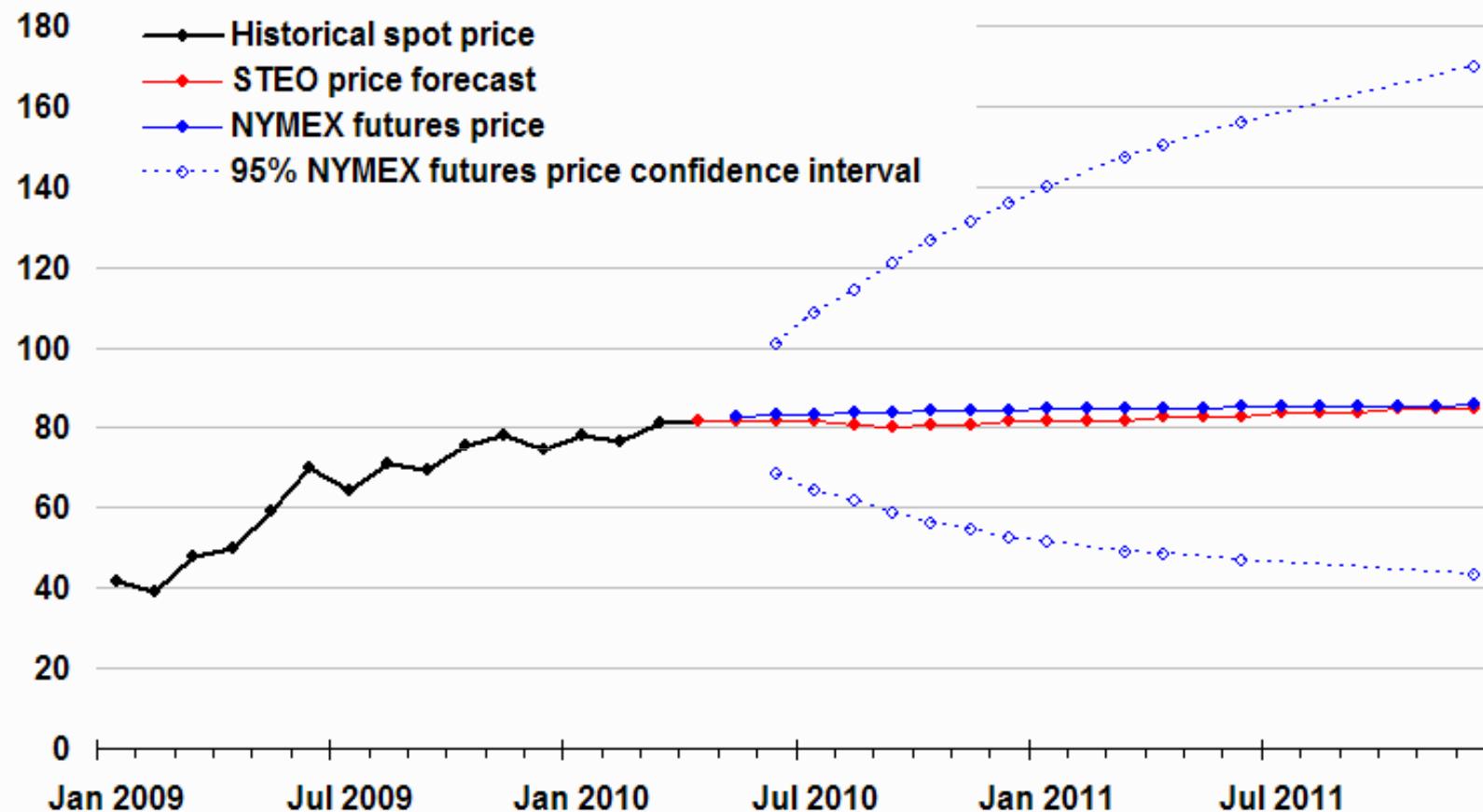


2030



West Texas Intermediate (WTI) Crude Oil Price

dollars per barrel



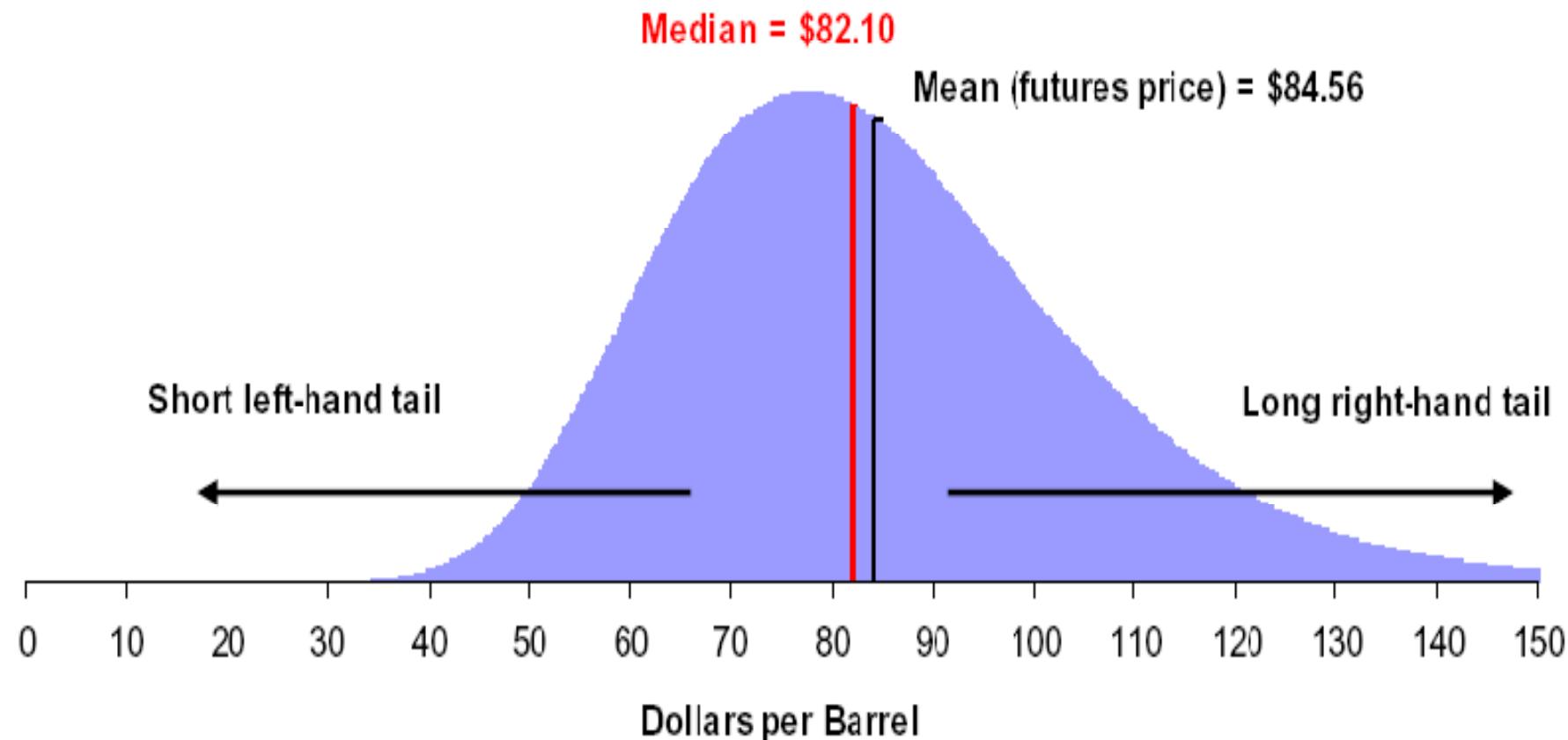
Note: Confidence interval derived from options market information on April 1, 2010

Intervals not calculated for months with sparse trading in "close-to-the-money" options contracts

Source: Short-Term Energy Outlook, April 2010; Reuters News Service; and CME Group



Figure 2. Probability distribution of December 2010 WTI price



Note: Probability distribution calculated using NYMEX market data for the five trading days ending April 1, 2010

Source: CME Group (<http://www.cmegroup.com>)

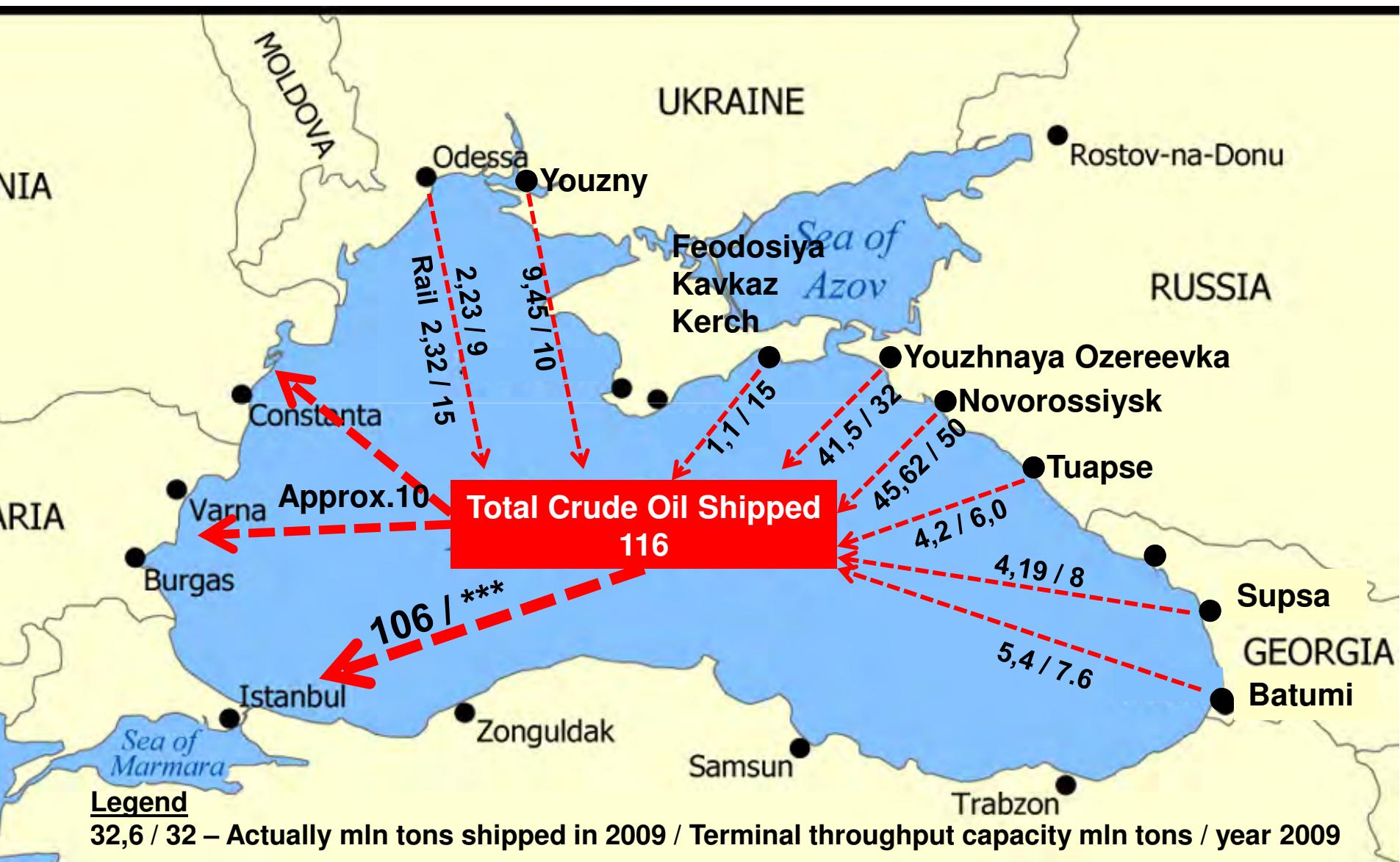
Russian and Caspian Main Crude Export Routes

June 2010





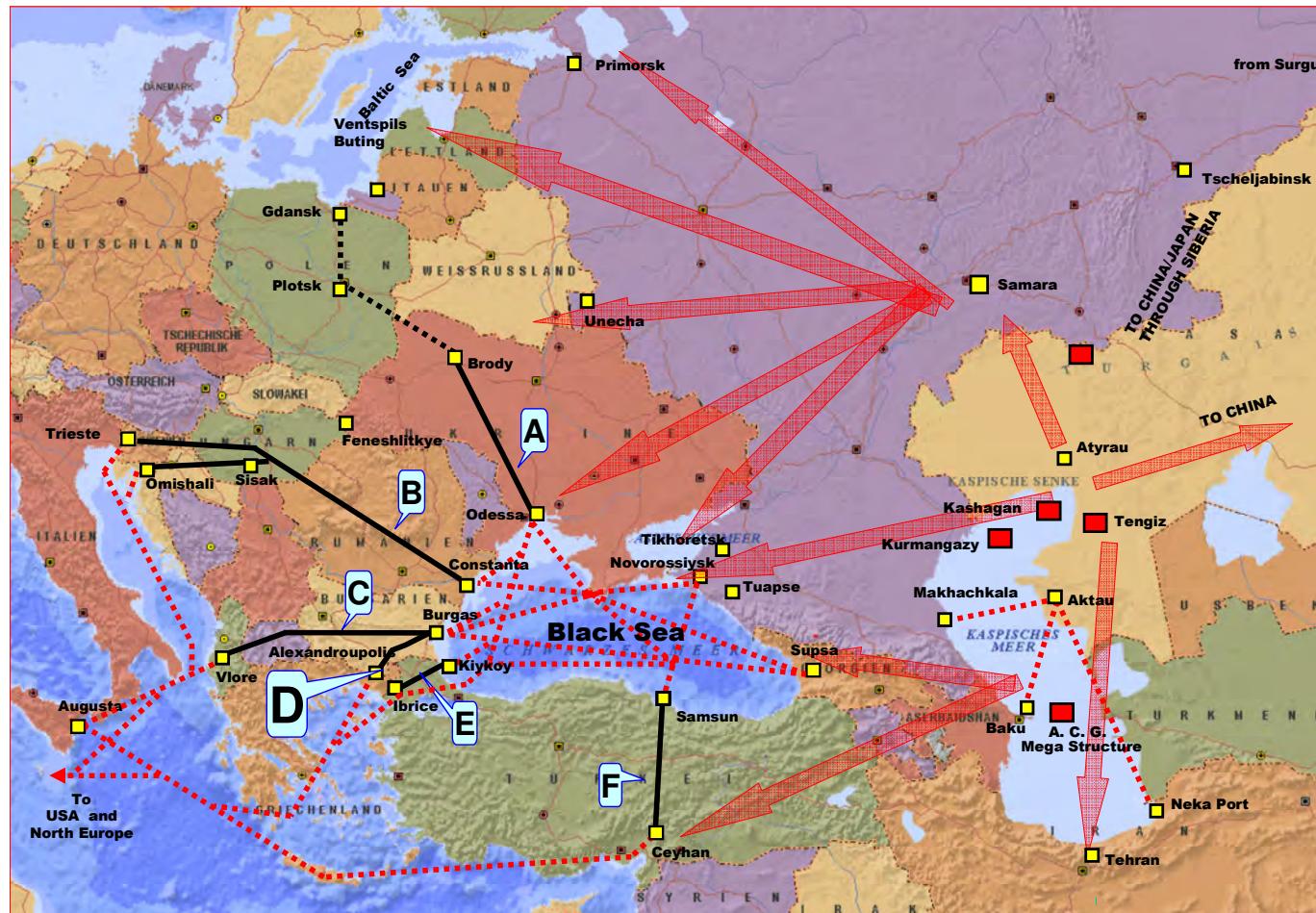
Balance of crude oil flow shipped through the Black Sea and the Bosphorus Straits during 2009 (Million Metric Tons)



Total Black Sea Ports Crude Oil Export Capacity in 2009 153 Million Metric Tons

Black Sea

Crude Oil Export Alternatives Bypassing the Straits



- A. Odessa – Brody – Baltic Sea
- B. Constantza – Trieste
- C. Burgas – Flore
- D. Burgas – Alexandroupolis
- E. Kiykoy – Ibrice
- F. Samsun - Cheyhan

In particular through the Balkans are existing or planned
the following pipelines:

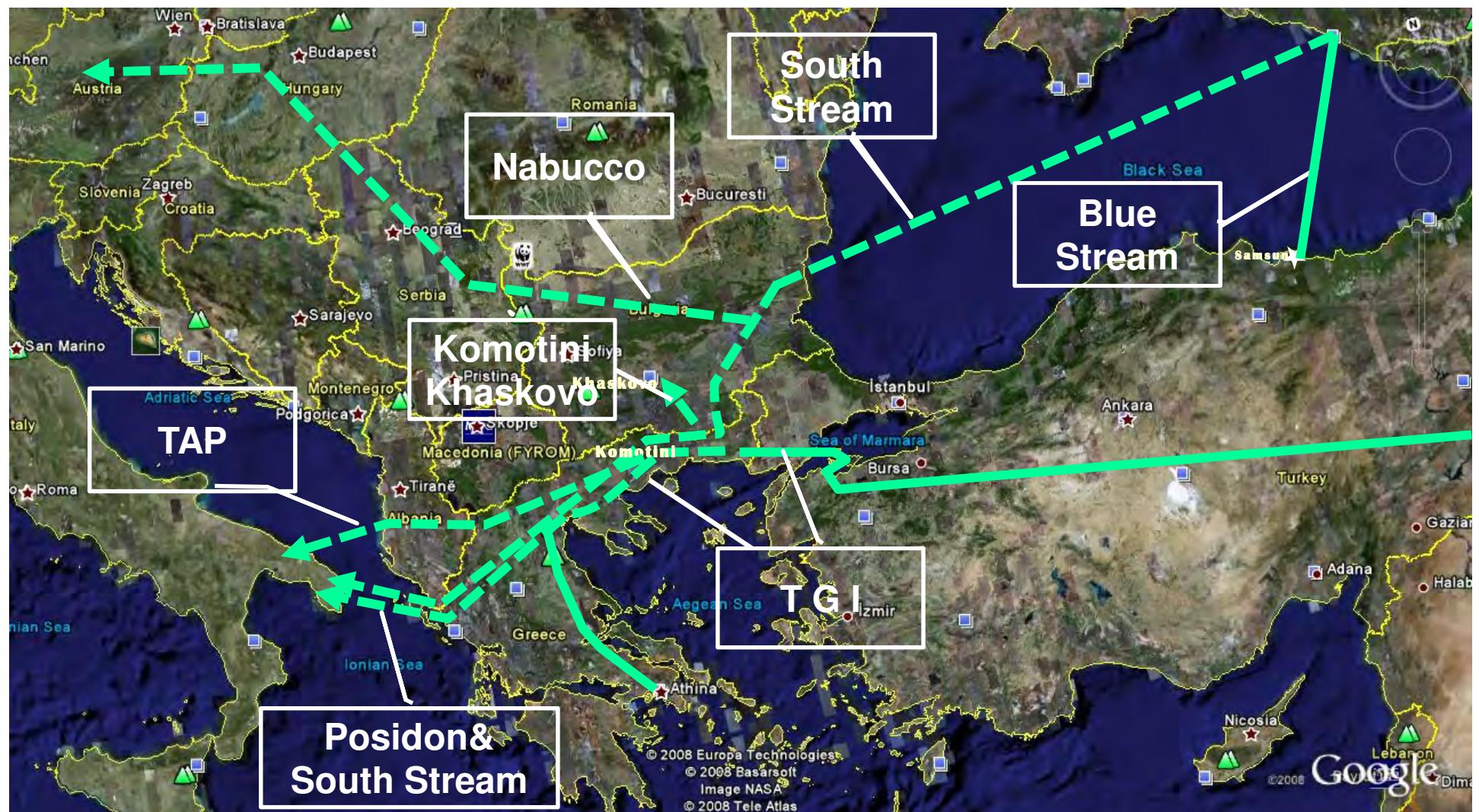
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- The Burgas – Alexandroupolis crude oil pipeline (study under completion)
- The Russian Gas to the Balkans natural gas pipeline (existing)
- The TGI natural gas pipeline (partially completed)
- The South stream natural gas pipeline (planned)
- The Komotini – Khaskovo natural gas pipeline (planned)
- The Posidon natural gas pipeline (planned)
- The Nabucco natural gas pipeline (planned)

All of the above pipelines, except of Nabucco are passing through Greece

Gas Pipelines through the Balkans

June 2010



Natural Gas Pipelines

June 2010



Planned South Stream and Nabucco Gas Pipelines



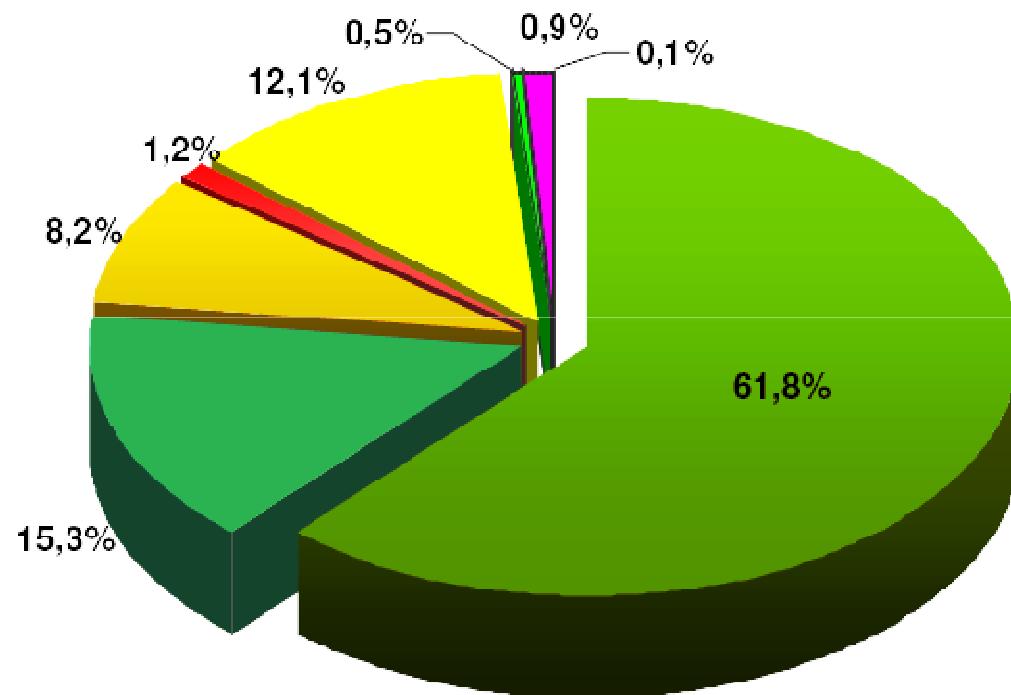
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The Greek Gas System



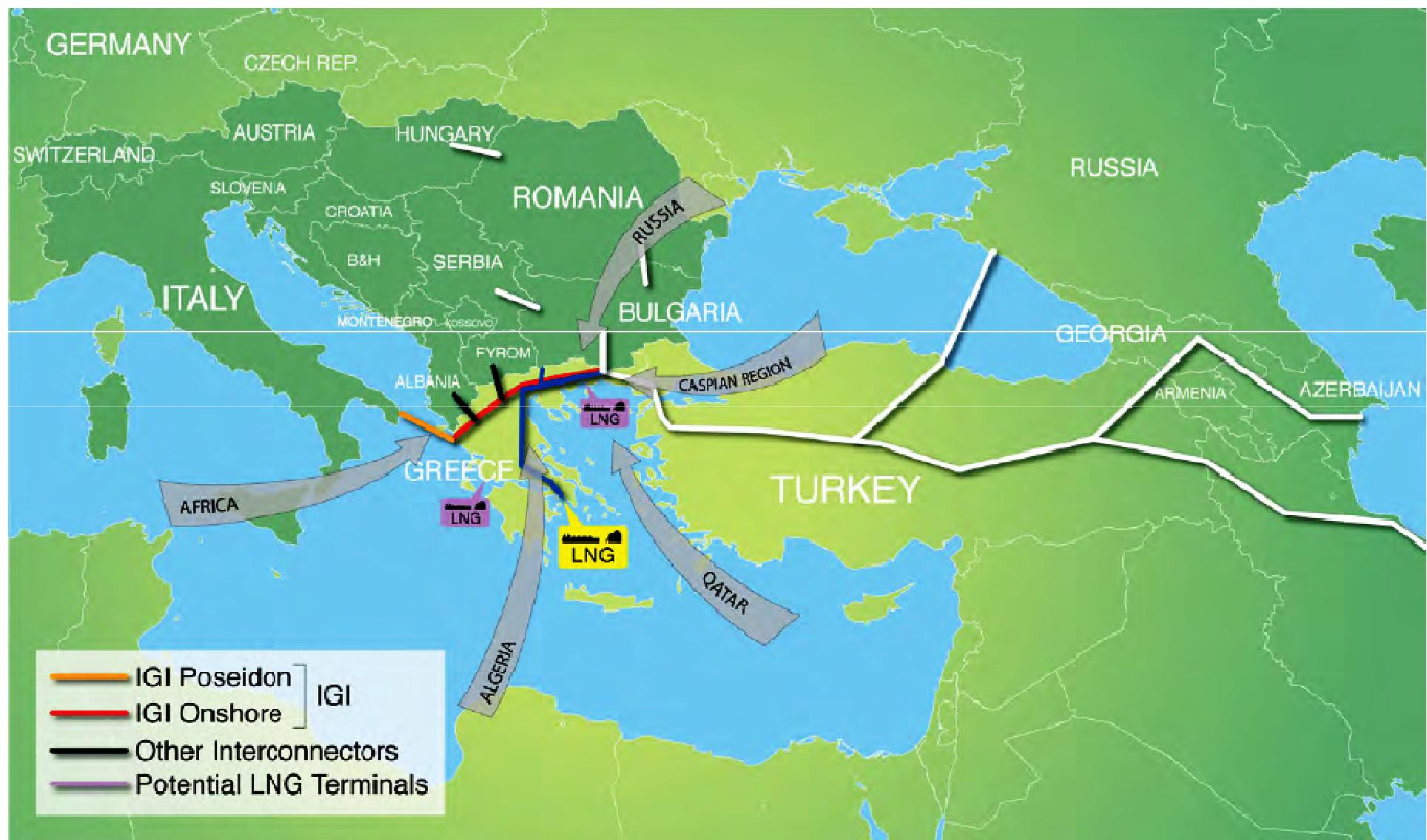
Greece - 2009 Gas Consumption

2009 gas consumption: 3.4 bcm



- Power generation
- Residential
- Industry-chemical use
- Industry-thermal use
- CNG
- DESFA
- Cogeneration
- Transit Gas

Greece as a Natural Gas Hub



The Turkey – Greece Interconnector (ITG)



The Greece – Italy Gas Pipeline (I G I)



The Greece – Bulgaria Gas Pipeline (I G B)



South Stream Gas Pipeline

