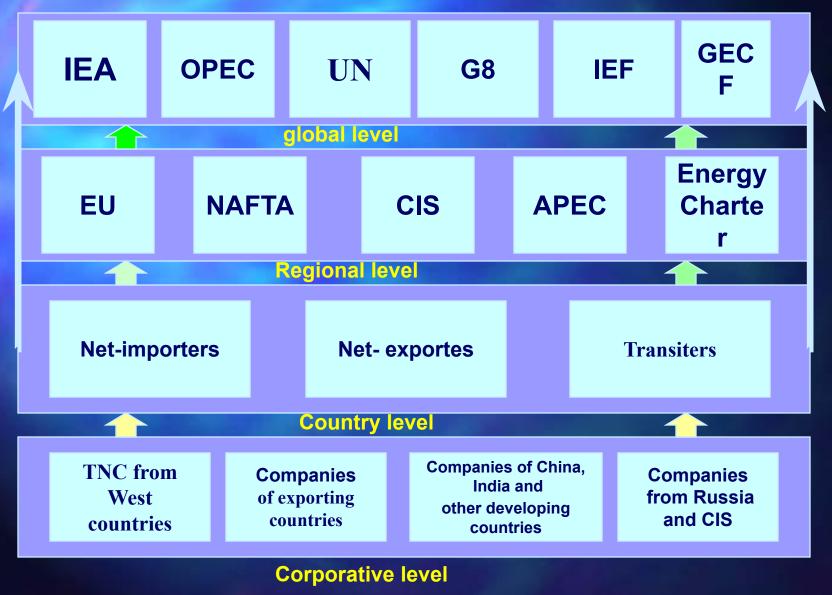
ENERGY DIPLOMACY

Russia and the World

Stanislav Zhiznin professor

SYSTEM OF WORLD ENERGY POLICY&DIPLOMACY



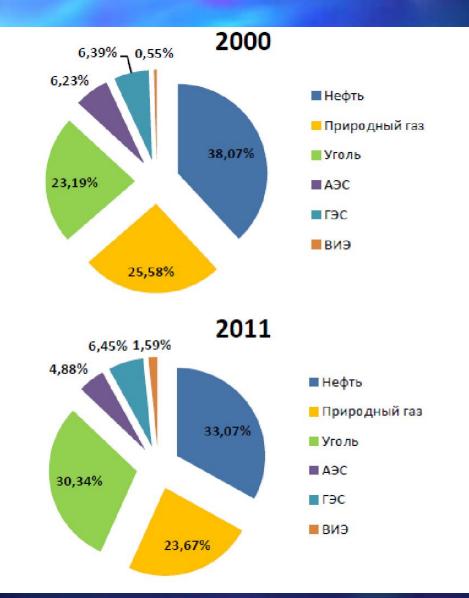


1.Generalities
2.Global level
3.Regional level
4.Bilateral relations
5.Practical issues

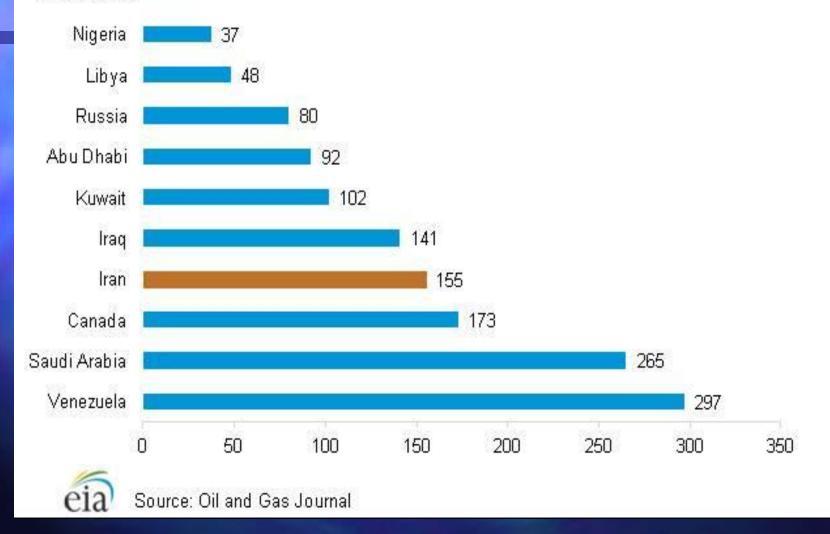
GENERALITIES

1.Origins of Energy diplomacy
2.Terms, trends
3.Economic aspects (trends in world and Russian energy industries)
Geopolitical aspects
Energy factor in foreign policy

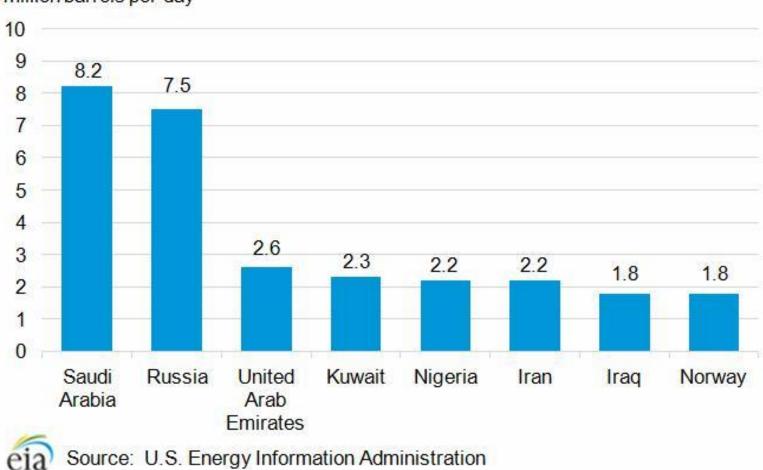
Trends in the world energy consumption



Largest proven reserve holders of oil, January 2013 billion barrels

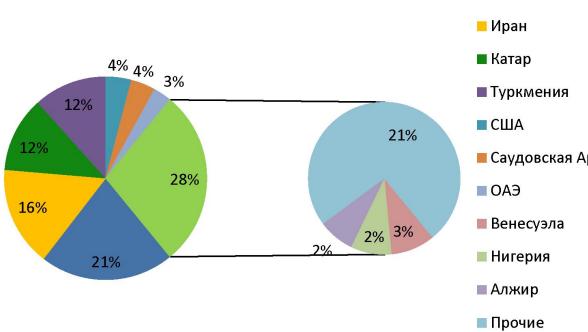


World's top net oil exporters, 2011



million barrels per day

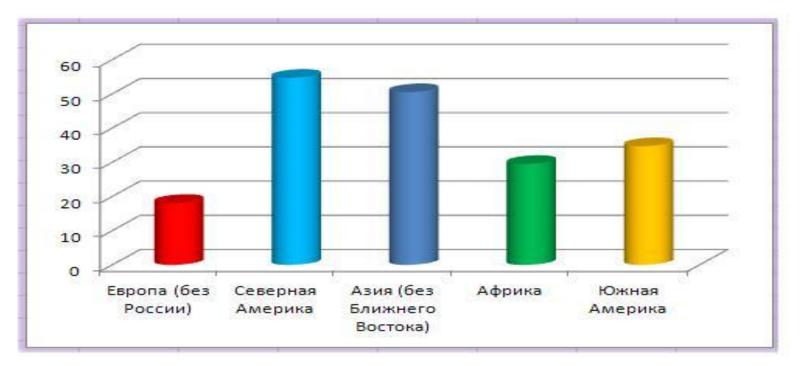
Proven reserves of traditional gas



📕 Саудовская Аравия

Россия

Reserves of shale gas in the world



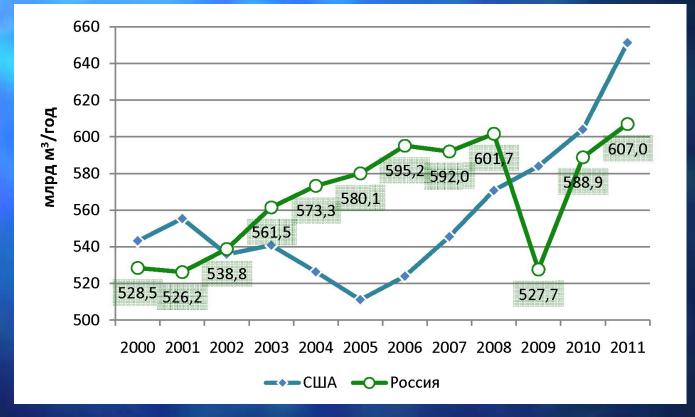
Запасы сланцевого газа в мире (с) EIA 2011

Запасы сланцевого газа для 32 стран на 2011 год по данным ЕІА

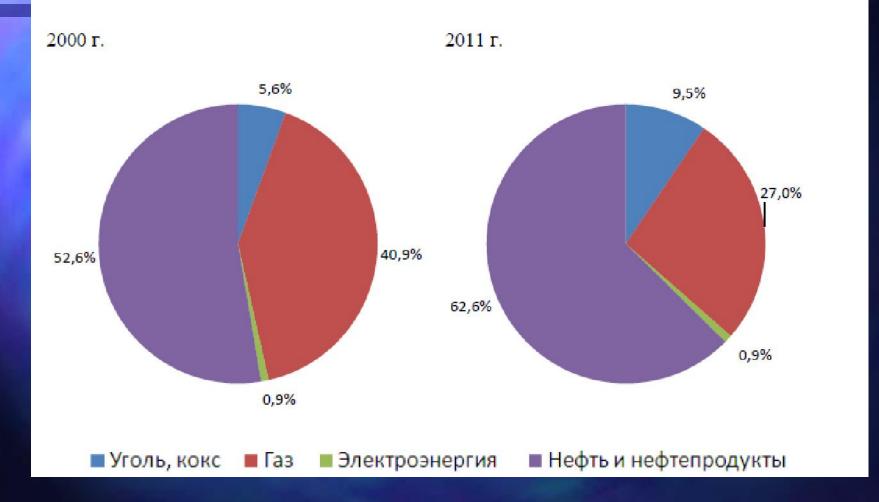
Страна	Запасы, трлн куб. м	Страна	Запасы, трлн куб. м	Страна	Запасы, трлн куб. м
Китай	36,7	Франция	5,1	U.K.	0,566
CIIIA	24,4	Норвегия	2,4	Колумбия	0,538
Аргентина	21,9	Чили	1,8	Тунис	0,510
Мексика	19,3	Индия	1,8	Нидерланды	0,481
Южная Африка	13,7	Парагвай	1,8	Турция	0,425
Австралия	11,2	Пакистан	1,4	Марокко	0,312
Канада	10,9	Боливия	1,4	Венесуэла	0,312
Ливия	8,2	Украина	1,2	Германия	0,227
Алжир	6,5	Швеция	1,2	Западная Сахара	0,198
Бразилия	6,4	Дания	0,651	Литва	0,113
Польша	5,3	Уругвай	0,595		

Значительное количество сланцевых месторождений находятся в тех регионах, где наблюдается недостаток традиционных источников – в частности, Китае, Южной Африке и Европе.

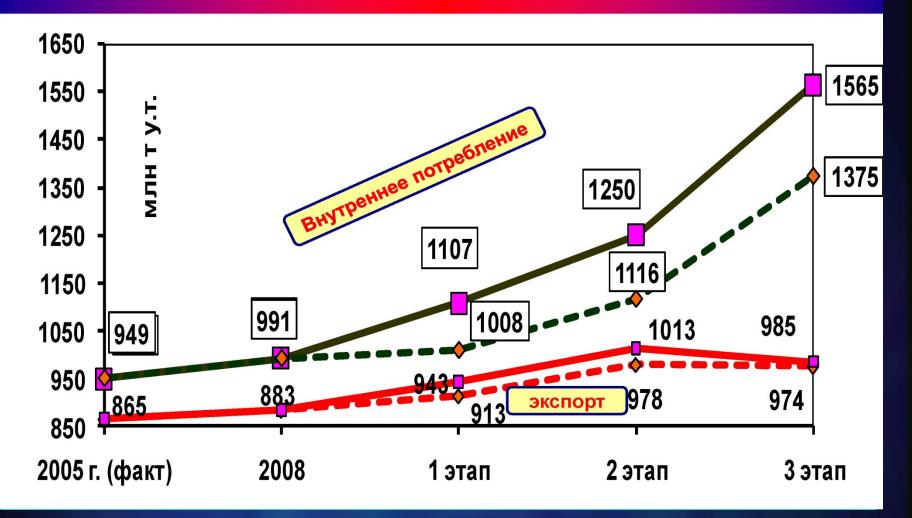
Gas production in Russia and USA BP, 2012.



Export structure of energy resources from Russia in 2000 and 2011. Minenergo od RF



Прогноз динамики внутреннего потребления и экспорта российских энергоресурсов на период до 2030 г.

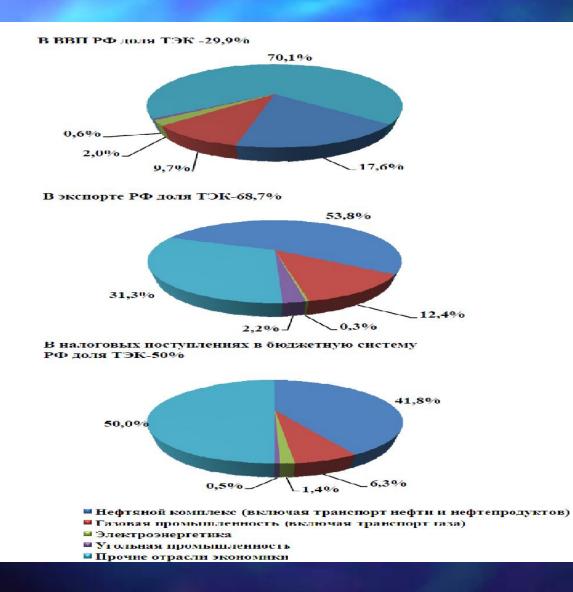


Прогнозный экспорт природного газа, предусмотренный Энергетической стратегией России на период до 2030 г.

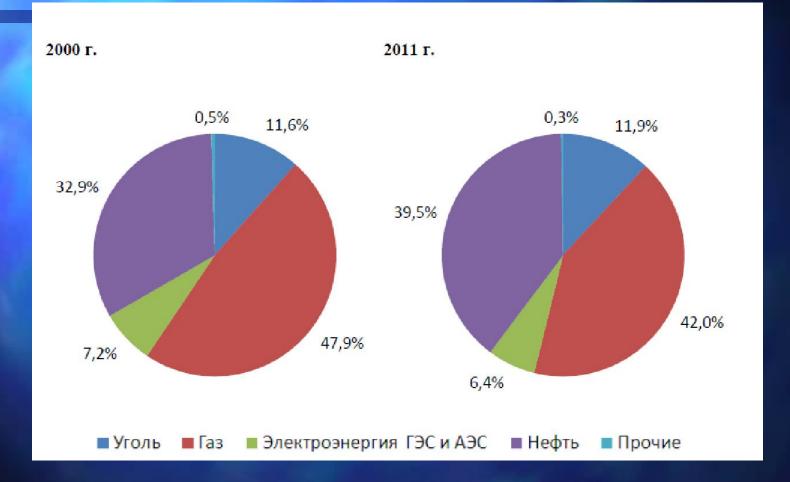
Показатели	2005 год факт	2008 год факт	1-й этап	2-й этап	3-й этап
Экспорт – всего (млн. тонн условного топлива)	865	883	913 - 943	978 - 1013	974 - 985
то же в процентах к 2005 году	100	102	106 - 109	113 - 117	113 - 114
в том числе: природный газ (млрд. куб. м)	256	241	270-294	332-341	349-368

ИСТОЧНИК: А.М. МАСТЕПАНОВ

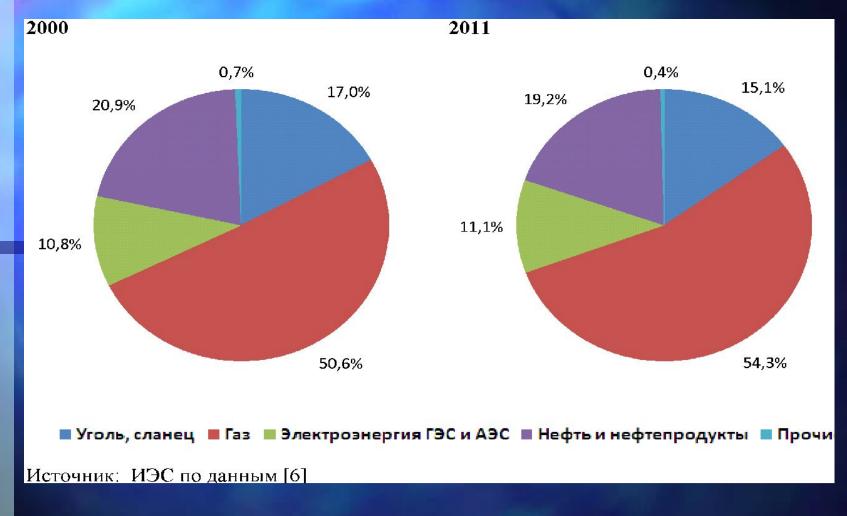
Energy industries in Russian economy, %. Источник: ИЭС на основе данных Минэнерго России, 2012.



Production of energy resources in Russia in 2000 and 2011. Минэнерго России, 2012.



Structure of energy consumption in Russia in 2000 and 2011



GLOBAL LEVEL

1.OPEC
2.IEA
3.GECF
4.IEF
5.G8/G20
6.BRICS



1.Origins of OPEC
2.Organisational structure
3.Instruments of regulation of oil markets
4.Russia and OPEC



1.Origins of IEA
2.Structure
The role in World energy policy
Russia and IEA



1.History
Structure
Russia and GECF

IEF, G8/G20, BRICS

IEF history, structure, JODI and other aspects
G8/G20 (energy security issues)
BRICS (energy security issues)

REGIONAL LEVEL

POSTSOVIET AREA
CASPIAN ENERGY MARATHON
RUSSIA IN EUROPE
RUSSIA IN ASIA
RUSSIA- USA
RUSSIA-EXPORTING COUNTRIES

POSTSOVIET AREA

 MULTILETARAL COOPERATION
 BILATERAL RELATIONS WITH TRANSIT COUNTRIES
 RELATIONS WITH RESOURCES COUNTRIES

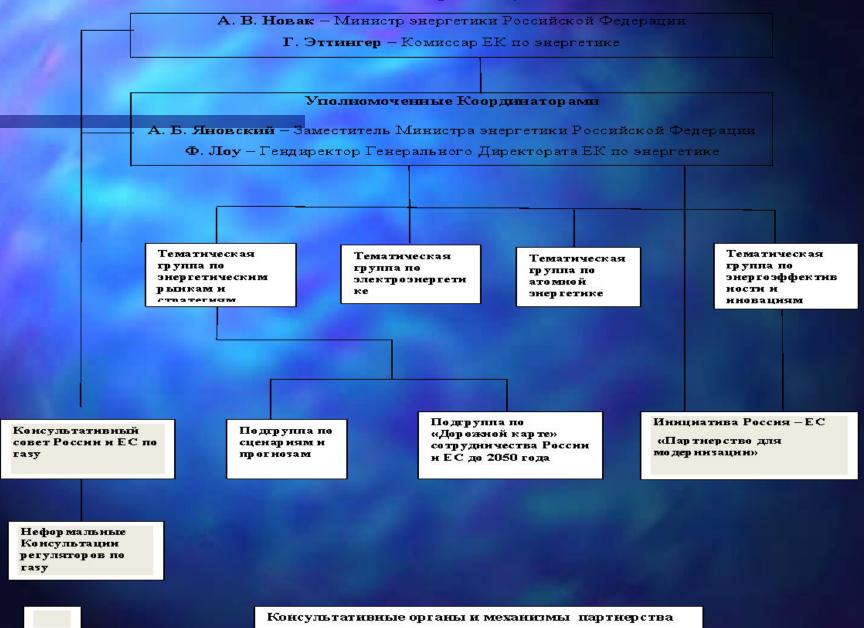
CASPIAN ENERGY MARATHON

HISTORY OF USSR-IRAN CASPIAN AGREEMENT **ECONOMIC AND GEOPOLITICAL INTERESTS OF CASPIAN AND OTHER COUNTRIES** PROBLEMS OF NEW LEGAL STATUS AND **REGIME OF CASPIAN SEA** PROBLEMS OF REGIONAL COOPERATION OIL AND GAS PROJECTS IN THE REGION

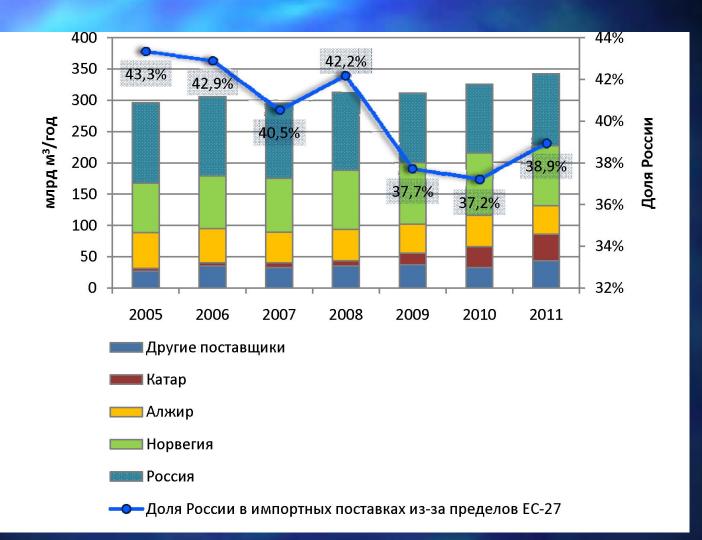
ENERGY DIALOGUE RUSSIA-EU

 HISTORY AND ORGANISATIONAL STRUCTURE
 PROSPECTS AND PROBLEMS
 RUSSIAN GAS IN EU MARKETS

Структура Энергодиалога Россия – ЕС (составлено на основе материалов Минэнерго РФ)



Gas import to EU and share of Russia: BP, 2012.

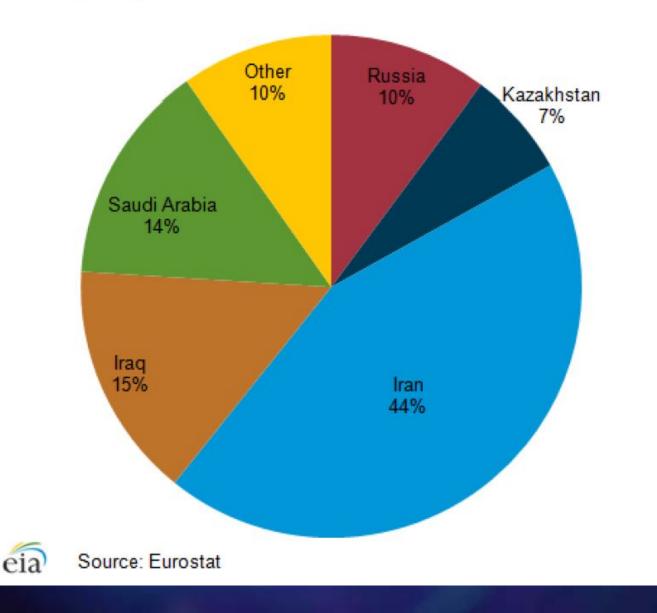


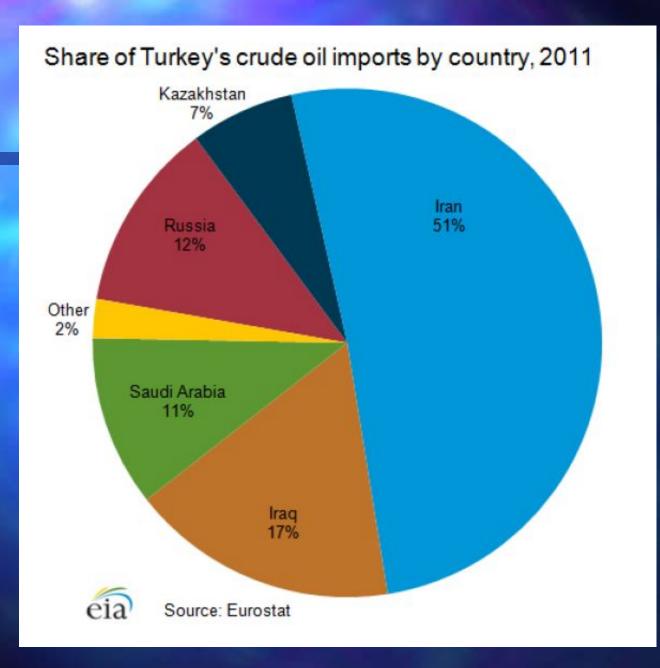


RUSSIA-TURKEY

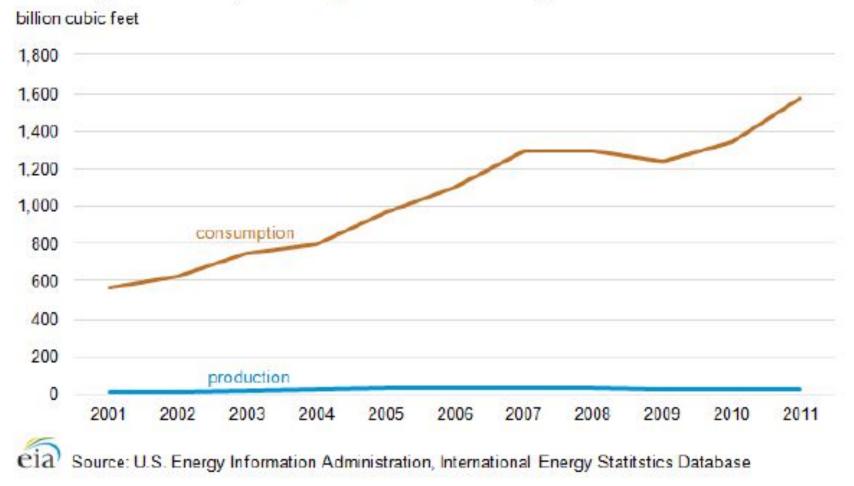
1.Political and economic cooperation2.Prospects in gas industry3.Prospects in oil industry4.Other issues

Share of Turkey's crude oil imports by country, January-September 2012





Natural gas consumption and production in Turkey, 2001-2011



RUSSIA IN MULTILATERAL AND BILATERAL ENERGY COOPERATION IN ASIA

APEC

CHANKAY ORGANIZATION OF COOPERATION
EURASIAN ECONOMIC COMMUNITY
RUSSIA-CHINA
RUSSIA-JAPAN
RUSSIA- SOUTH KOREA
RUSSIA-INDIA
RUSSIA-KAZAKSTAN

GEOPOLITICAL AND ECONOMIC INTERESTS OF RF IN ASIA

- 1.Political stability in the region (! NEA) стабильность в регионе
 - 2.Settlement regional conflicts by peace ways and means
 - 3.Development of regional energy infrastructure and system of energy security
 - 4.Socio-economic development of Far East and Eastern Siberia
 - 5.Bilateral and multilateral energy cooperation in the region

RUSSIAN DOCUMENTS

- ENERGY STRATEGY OF RUSSIA TILL 2030
- PROGRAM OF FORMATION OF THE UNITED SYSTEM OF GAS PRODUCTION, TRANSPORTATION AND SUPPLY IN EAST SIBERIA AND FAR EAST WITH PROSPECTS OF GAS EXPORTS TO ASIAN PACIFIC AREA
 ORIENTAL GAS PROGRAM
 PROJECT OF CONSTRUCTION OF OIL PIPELINE «EAST SIBERIA-PACIFIC OCEAN»
 PSA AGREEEMENTS FOR REALISATION OF SAKHALIN-1 &2 PROJECTS

MAJOR PROJECTS

SAKHALIN PROJECTS
EAST SIBERIA PROJECTS
OIL PIPELINES
GAS PIPELINES
OTHER PROJECTS

Принципиальная схема

Единой системы добычи и транспортировки газа в Восточной Сибири и на Дальнем Востоке России



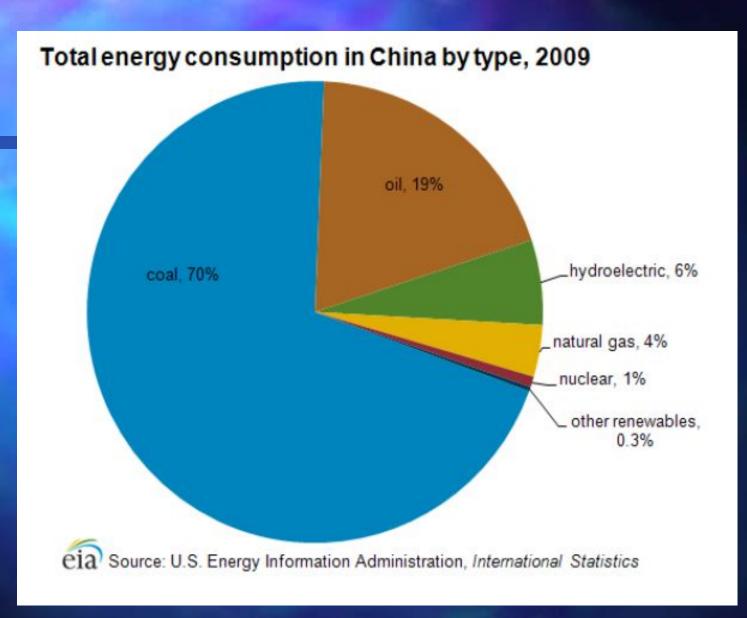
ИСТОЧНИК: А.М. МАСТЕПАНОВ



Восточная газовая Программа: рекомендуемый вариант развития – газопереработка и газохимия

RUSSIA-CHINA ENERGY PARTNERSHIP

POLITICAL AND LEGAL BASIS
ENERGY DIALOGUE
OIL PROJECTS
GAS PROJECTS
OTHER PROJECTS
ENERGY PROBLEMS OF CHINA



Top ten net oil importers, 2011*

United States China 5.5 Japan 4.3 India 2.3 Germany 2.3 South Korea 2.2 France 1.7

1.3

1.3

1.0

*Estimates of total production less consumption. Does not account for stockbuild. Source: U.S. Energy Information Administration Short-Term Energy Outlook (August 2012)

8.7

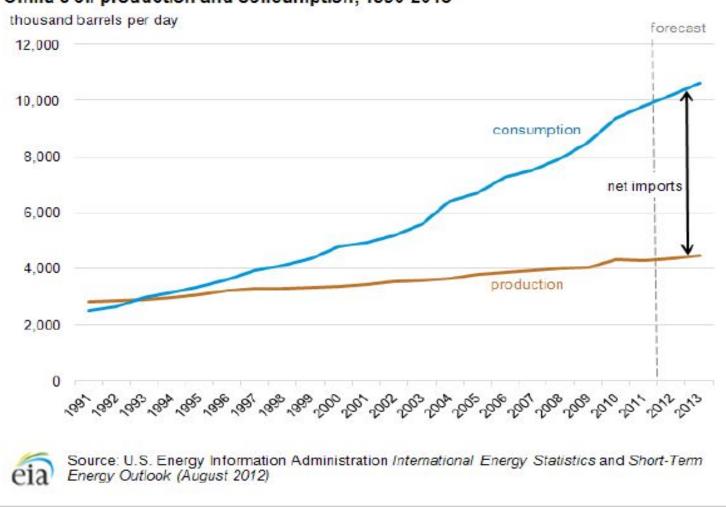
million barrels per day

Spain

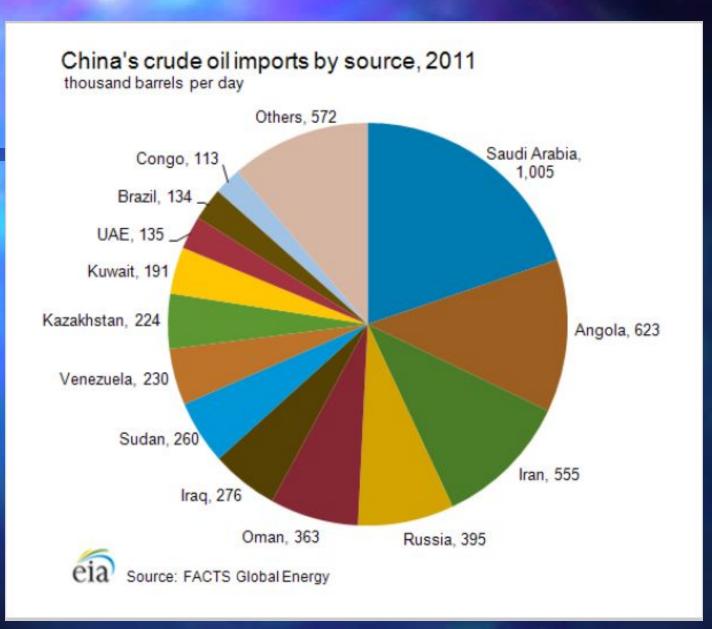
Taiwan

eia

Italy

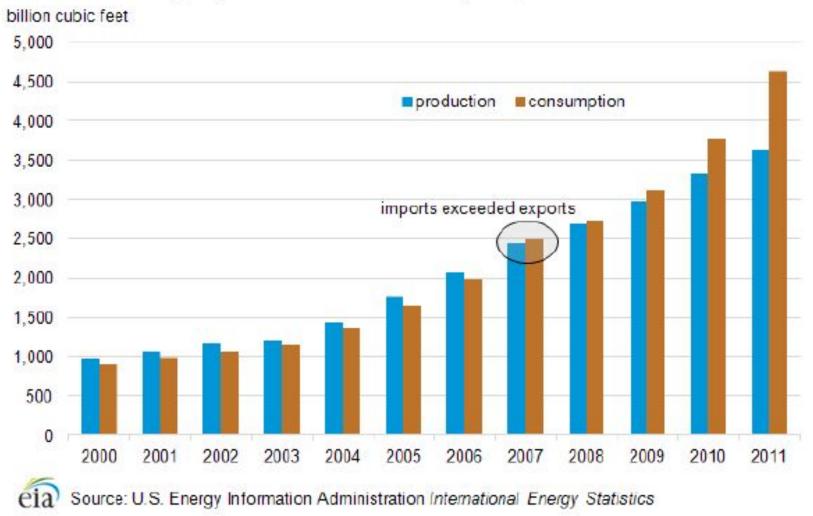


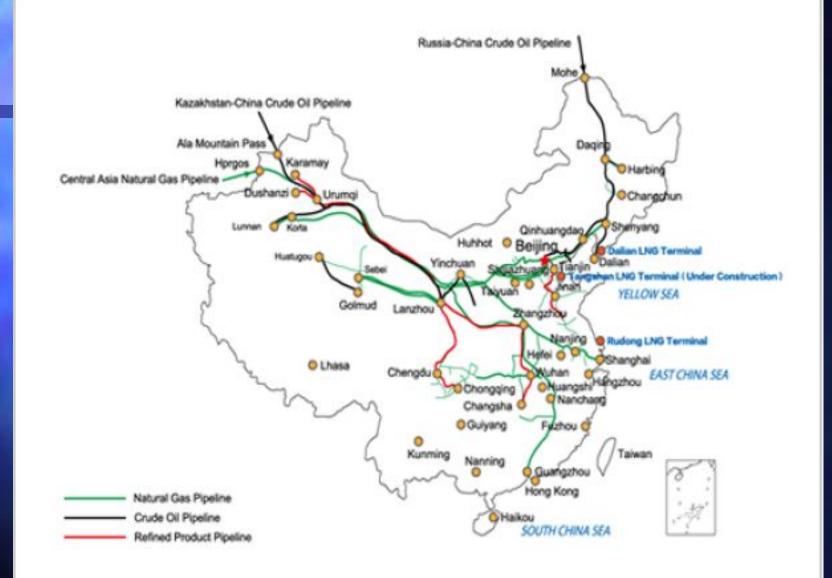
China's oil production and consumption, 1990-2013

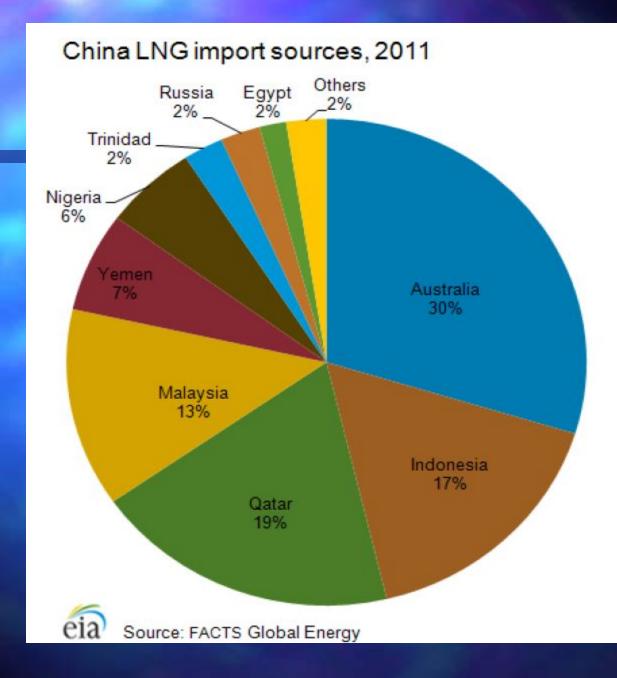


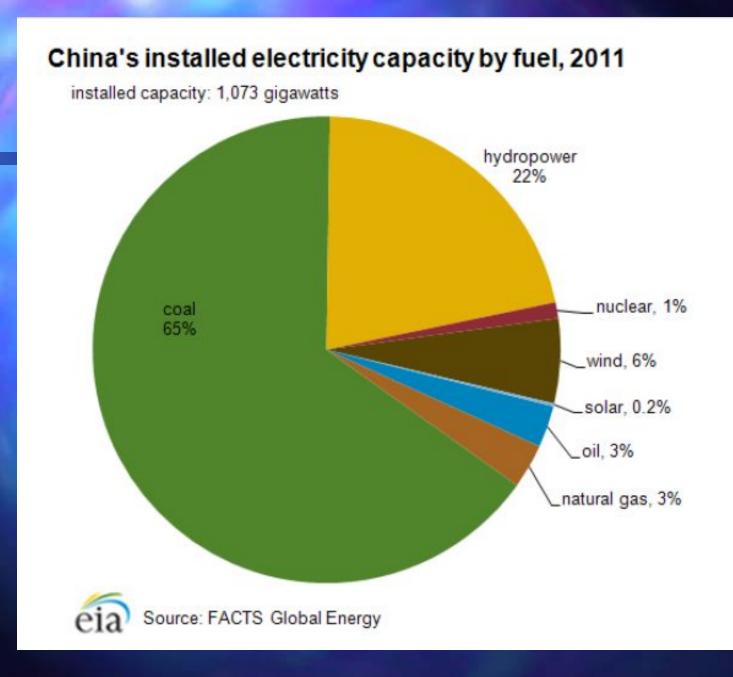


China's natural gas production and consumption, 2000-2011



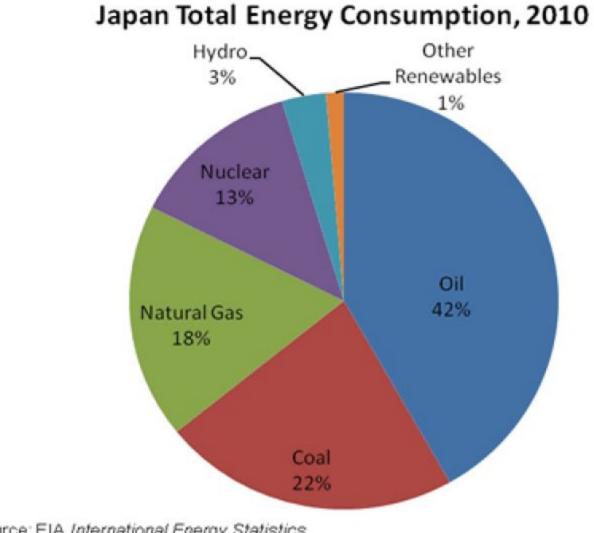






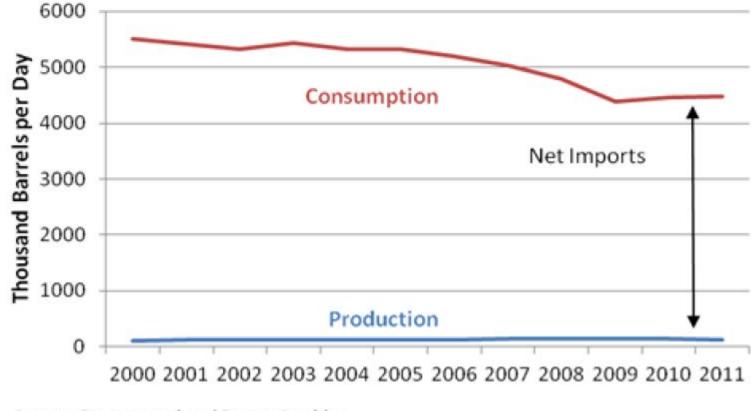
RUSSIA-JAPAN ENERGY RELATIONS

POLITICAL AND LEGAL BASIS
OIL PROJECTS
GAS PROJECTS
OTHER PROJECTS
ENERGY PROBLEMS OF JAPAN



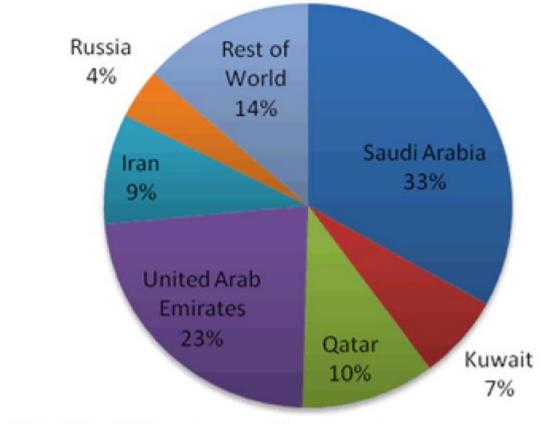
Source: EIA International Energy Statistics

Japan's Oil Production and Consumption, 2000-2011



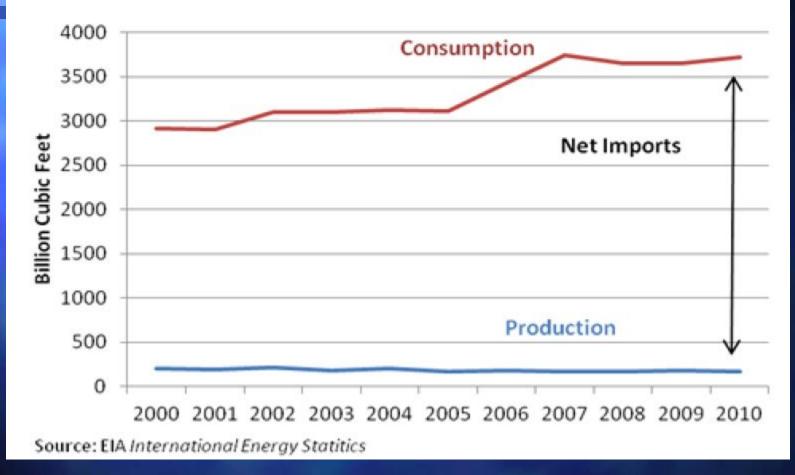
Source: EIA International Energy Statitics

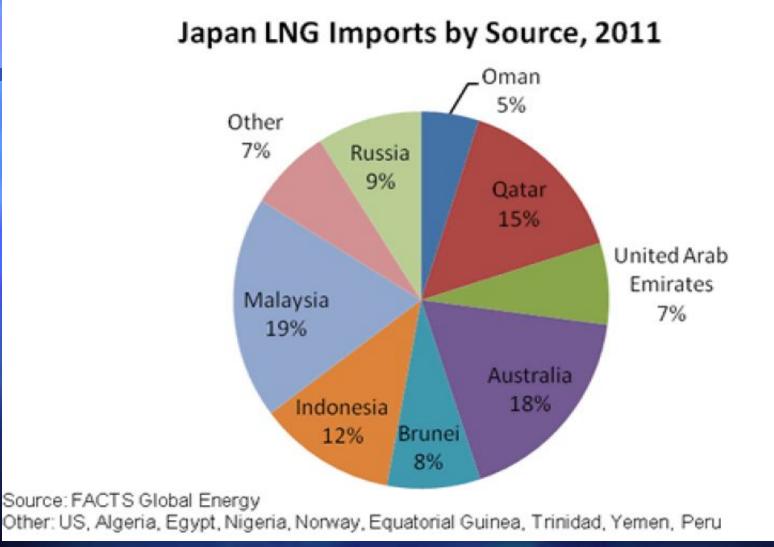
Japan's Crude Oil Imports by Source, 2011



Source: Global Trade Atlas, Japanese Government

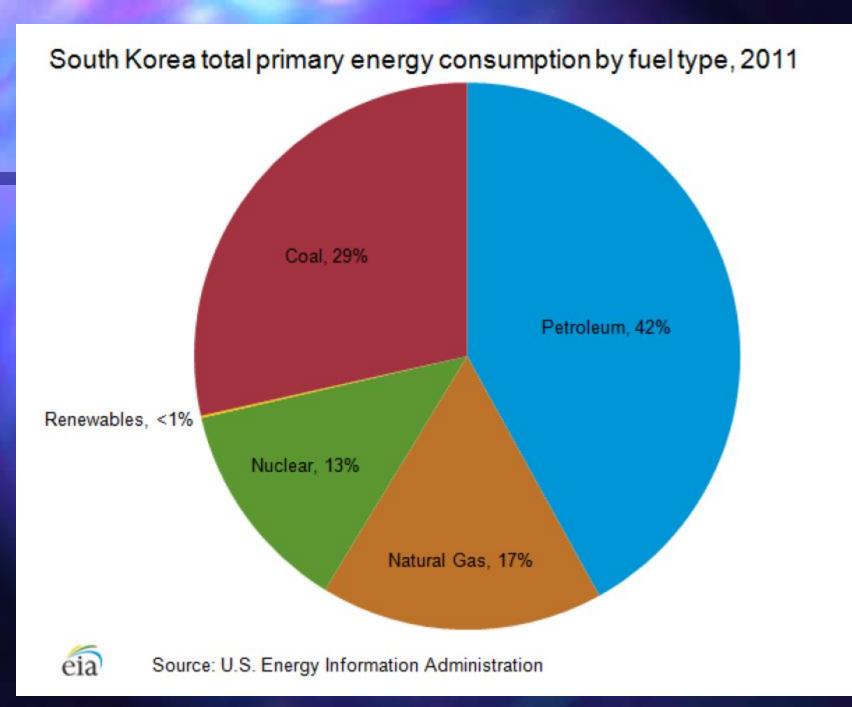
Japan's Natural Gas Production and Consumption, 2000-2010





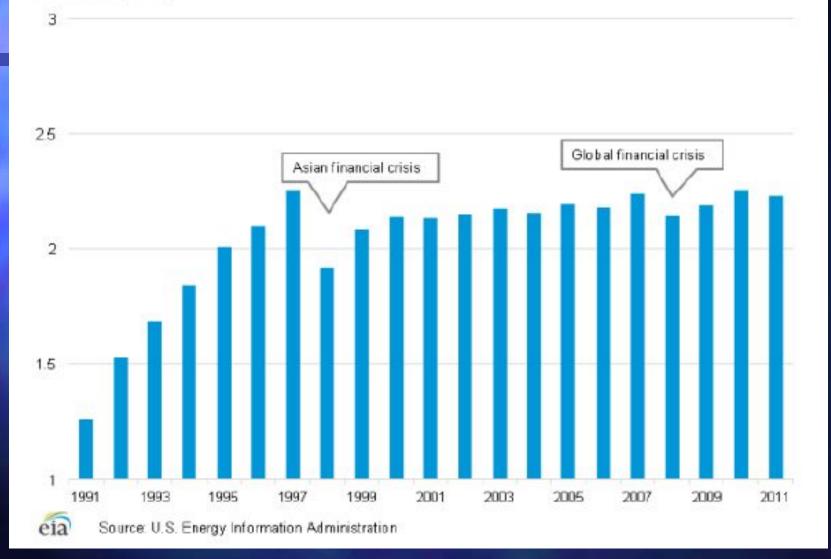
RUSSIA- SOUTH KOREA

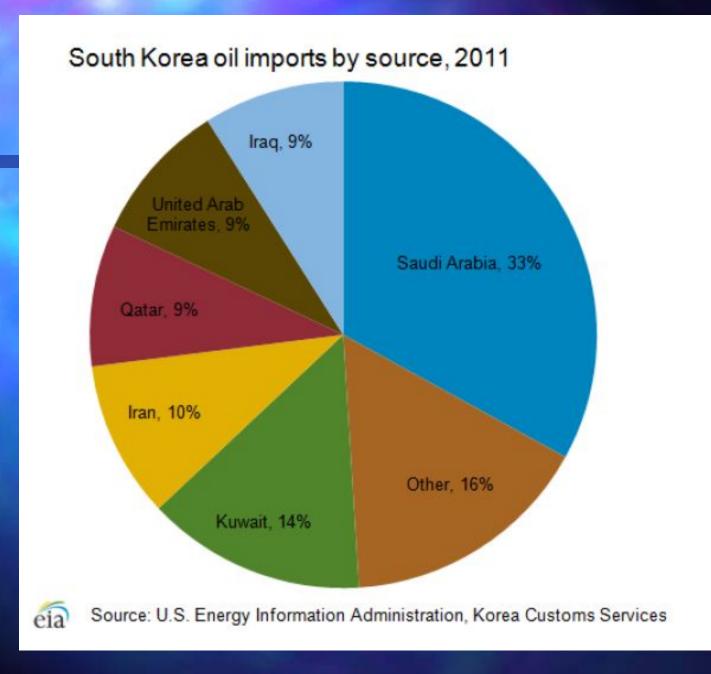
POLITICAL AND LEGAL BASIS
 OIL PROJECTS
 GAS PROJECTS
 ENERGY PROBLEMS OF S.KOREA



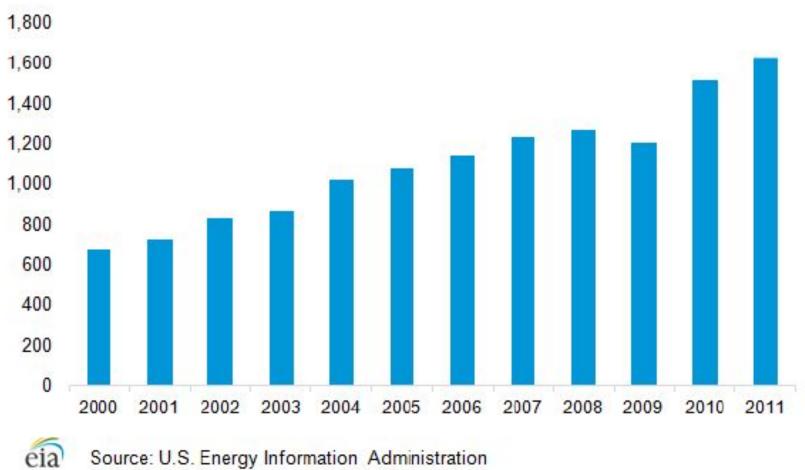
South Korea oil consumption, 1991-2011



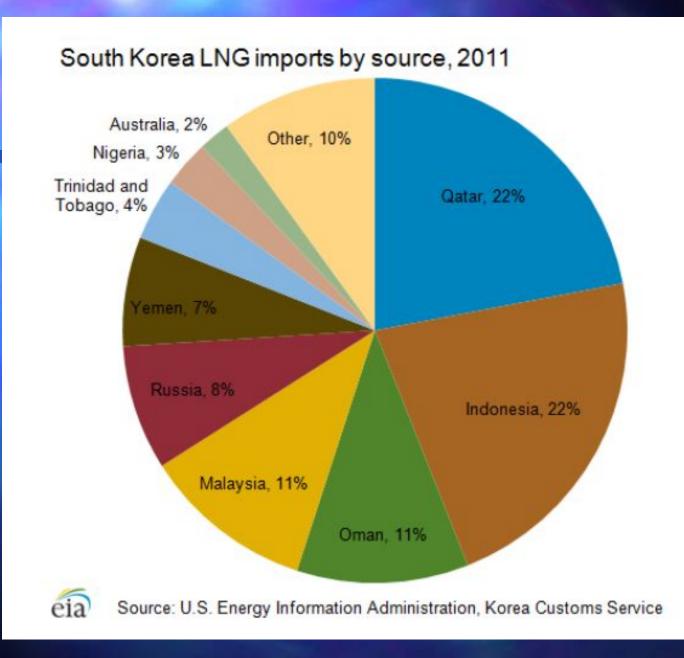




South Korea's natural gas consumption, 2000-2011 billion cubic feet



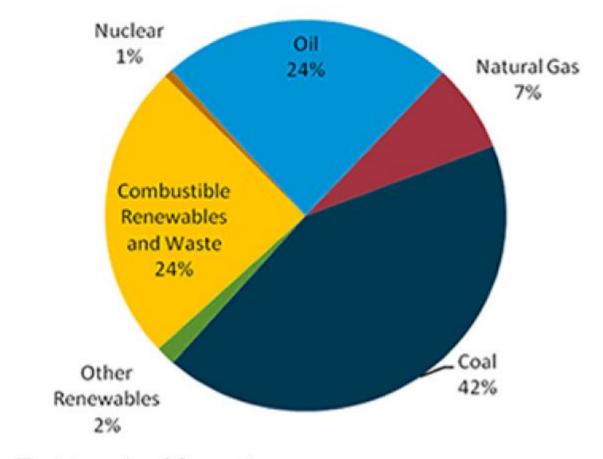
Source: U.S. Energy Information Administration



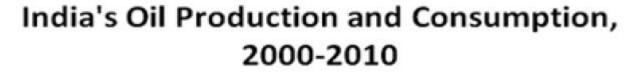
RUSSIA-INDIA

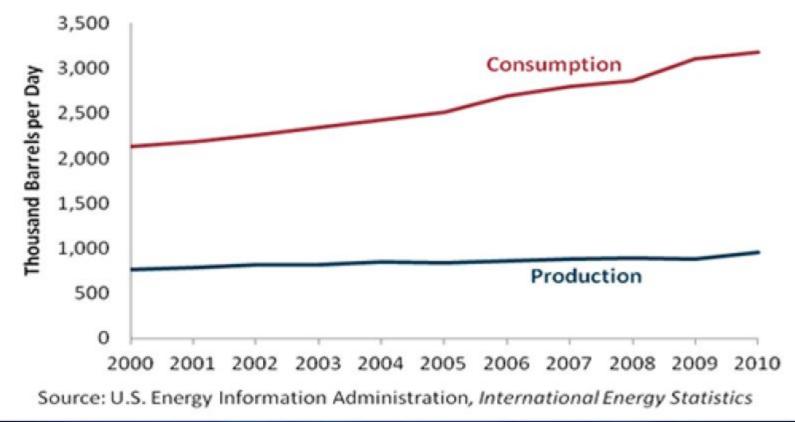
POLITICAL AND LEGAL BASIS
OIL PROJECTS
GAS PROJECTS
ENERGY PROBLEMS

Total Energy Consumption in India, By Type (2009)

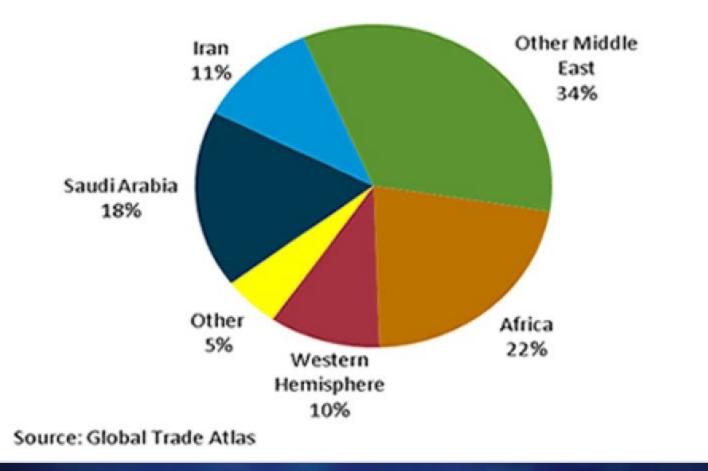


Source: The International Energy Agency





India's Oil Imports by Source, 2010



RUSSIA-USA

Prospects and problems of Energy Dialogue

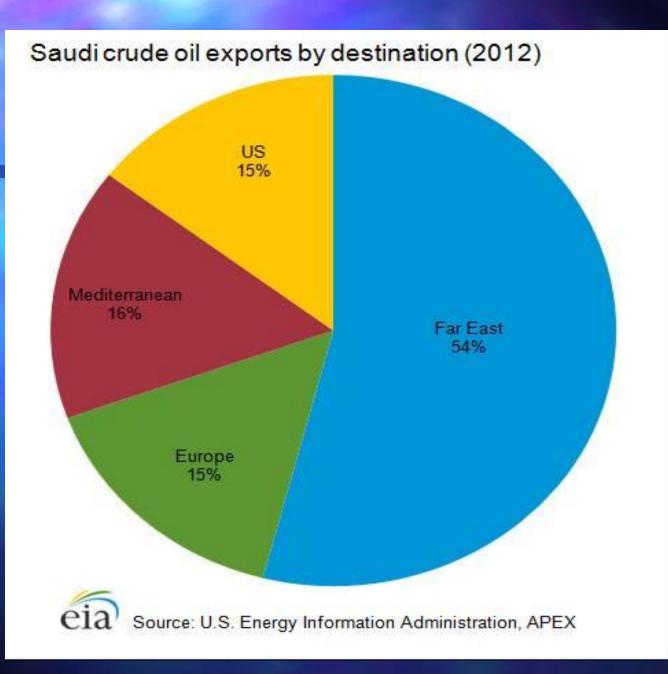
GENERAL ISSUES

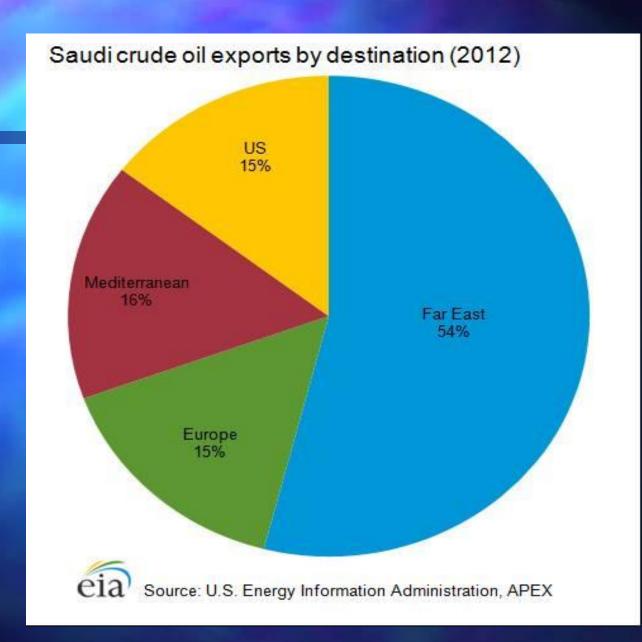
1.Energy problems of USA
2.Economic and geopolitical aspects of Energy cooperation Russia-USA
3.American interests
4.Russian interests Energy Dialogue
1.History
2.Energy in Russian-American summits

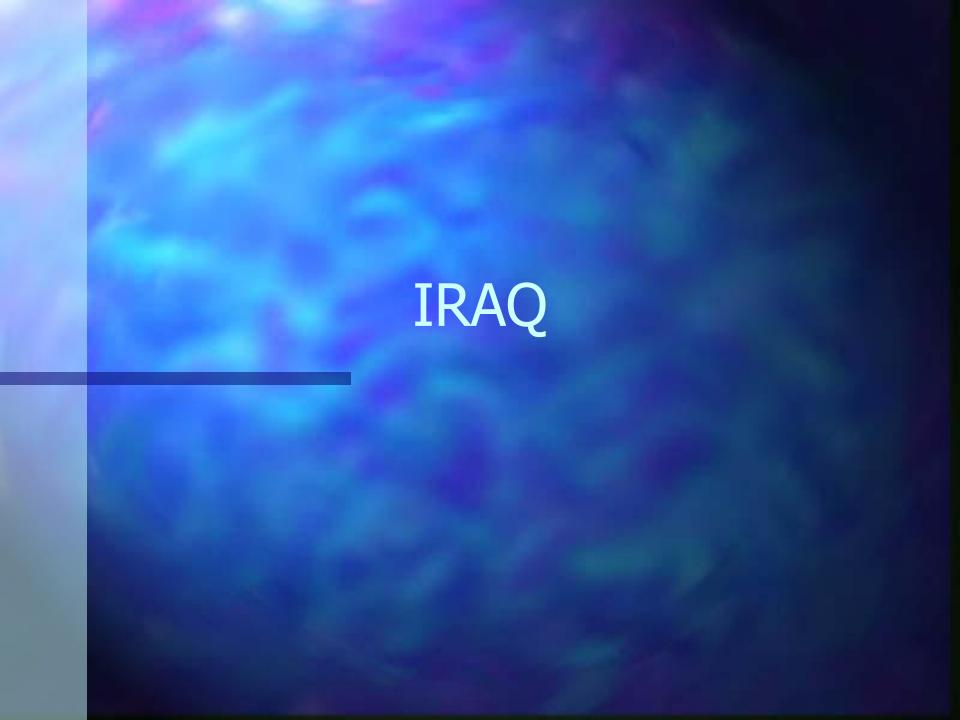
3.Russian-American energy business summits 2002, 20034.Prospects for cooperation

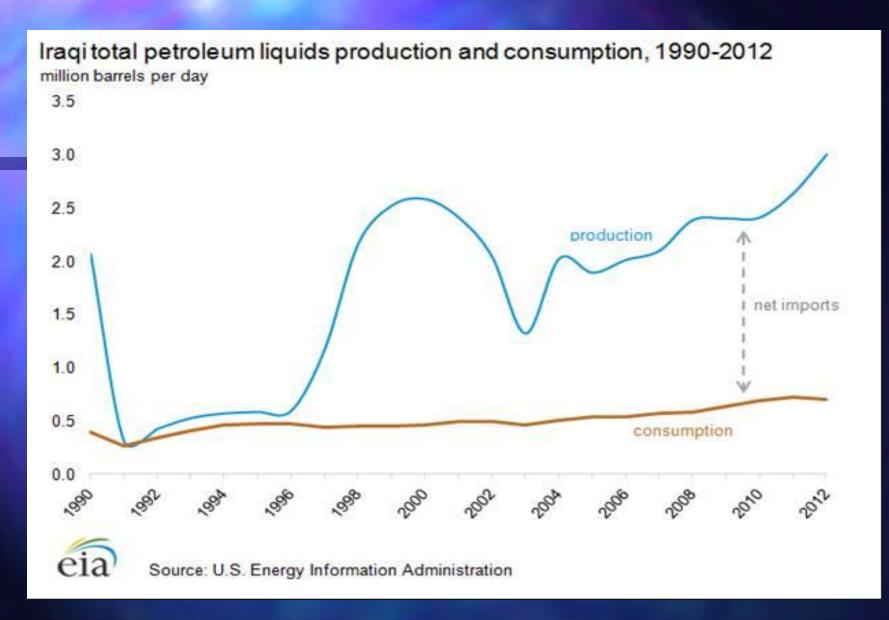
Exporting countries and Russia Saudi Arabia Iraq Iran Venezuela Norway

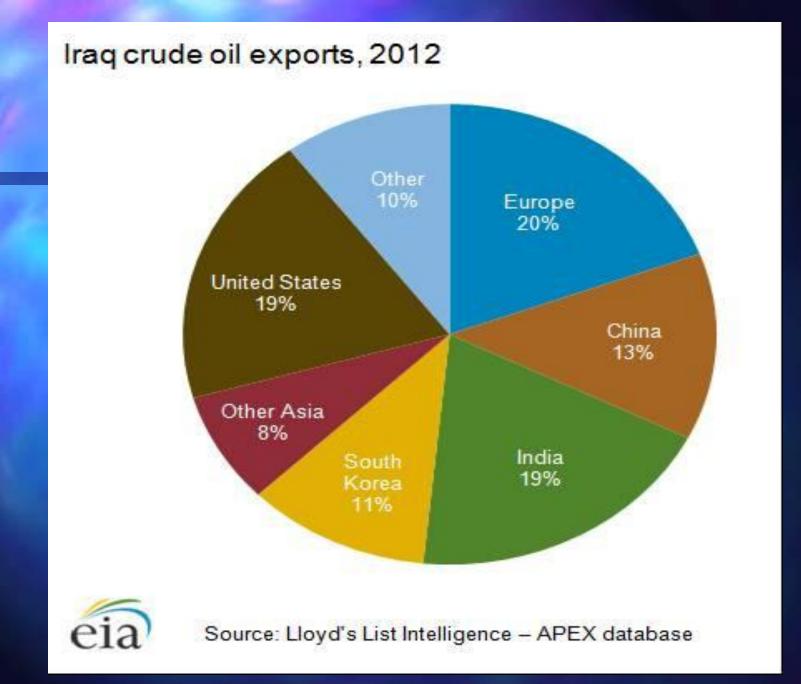
SAUDI ARABIA

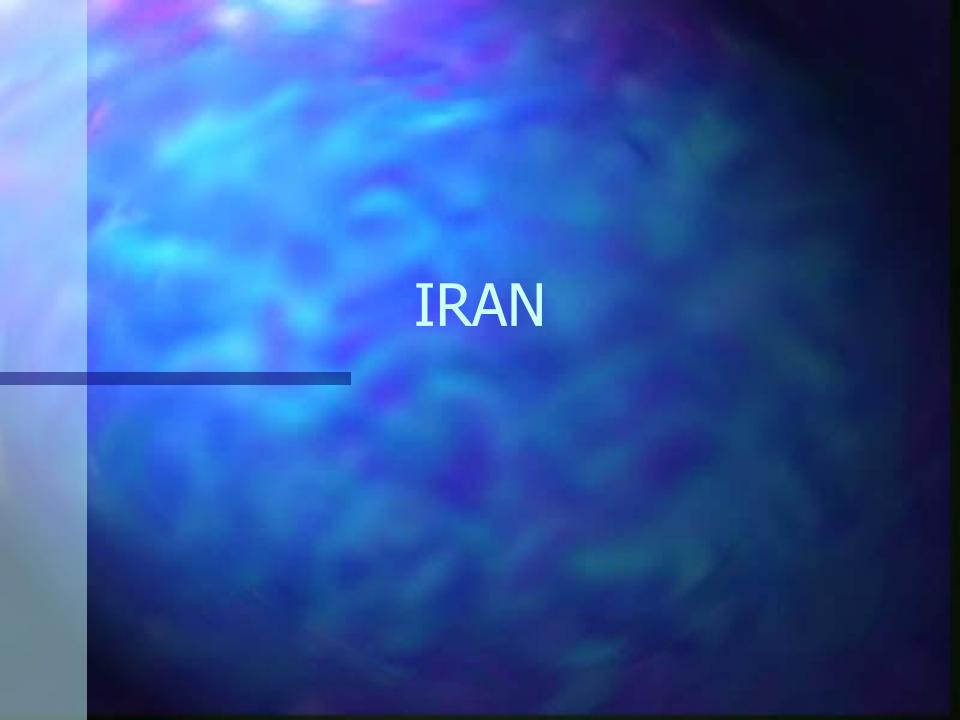






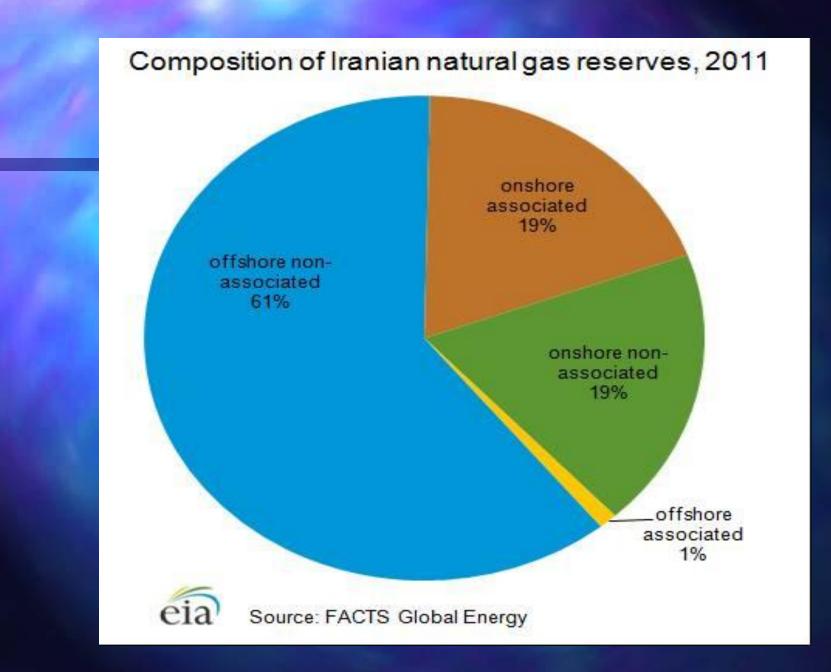




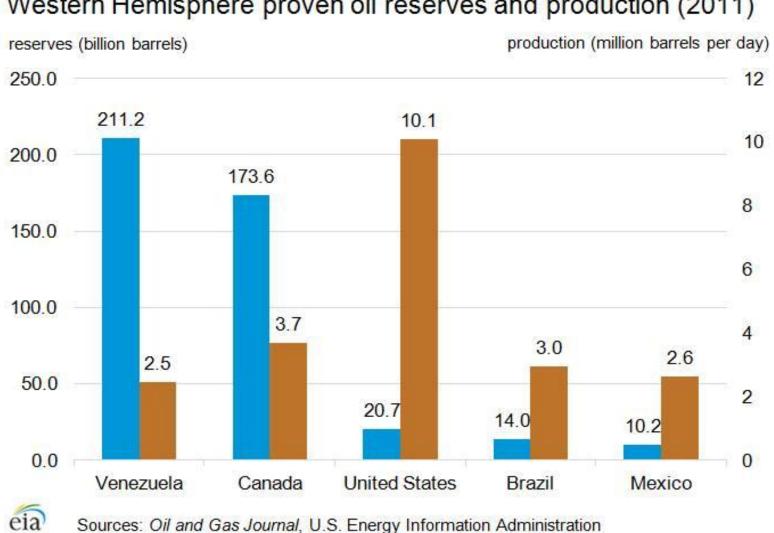


Estimates of Iran's average exports of crude oil and condensate in 2011 and 2012, million barrels per day

	2011 average	2012 average
Japan and Korea	0.55	0.32
China and India	0.88	0.76
Other non-IEA	0.31	0.13
Greece, Italy, Spain, and Turkey	0.63	0.22
Other Europe	0.14	0.02
Total Exports	2.51	1.53

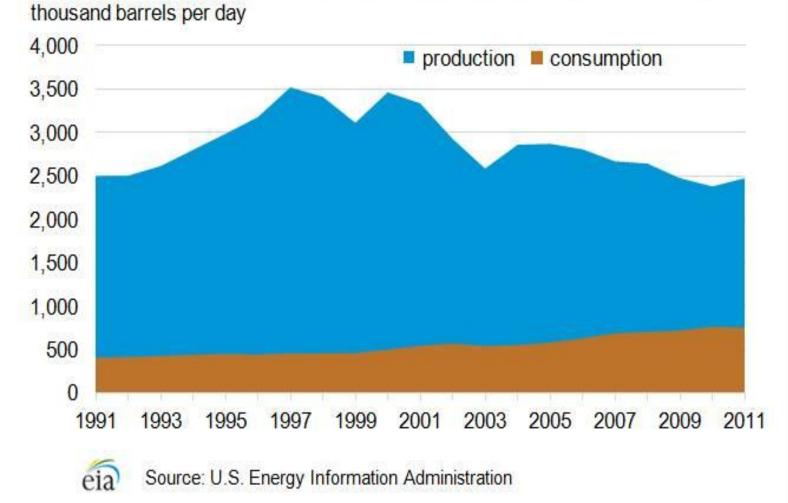


VENEZUELA



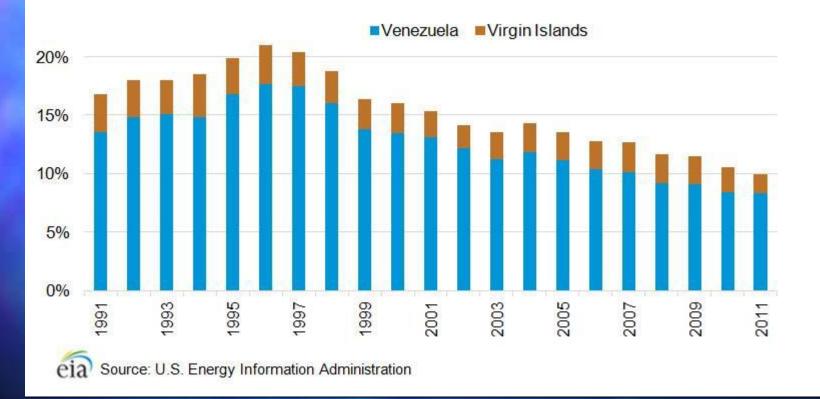
Western Hemisphere proven oil reserves and production (2011)

Venezuela's oil production and consumption (1991-2011)

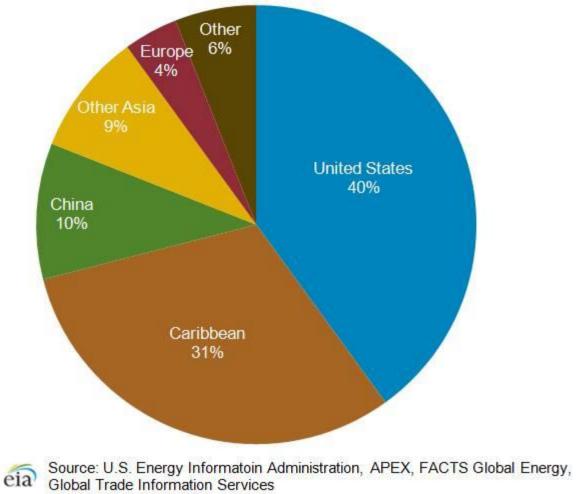


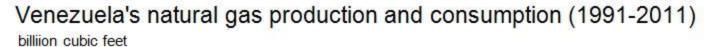


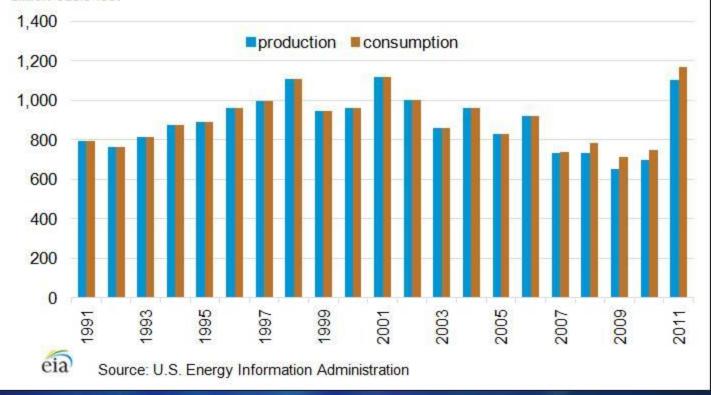
U.S. petroleum imports from Venezuela and U.S. Virgin Islands (1991-2011)



Venezuelan crude oil exports by destination (2011)





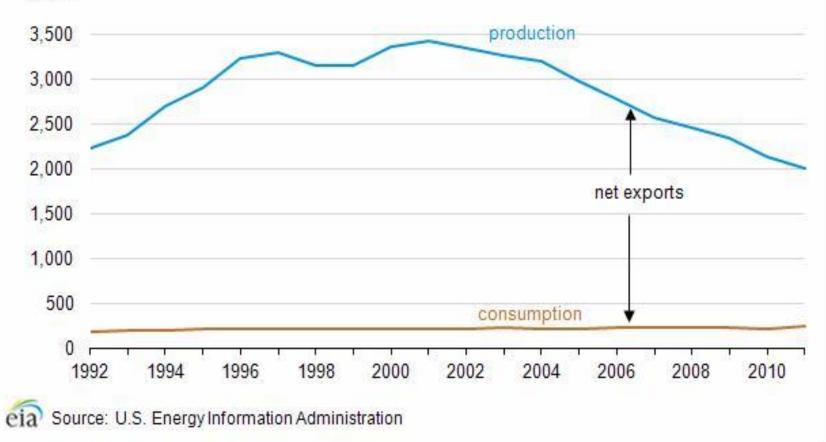




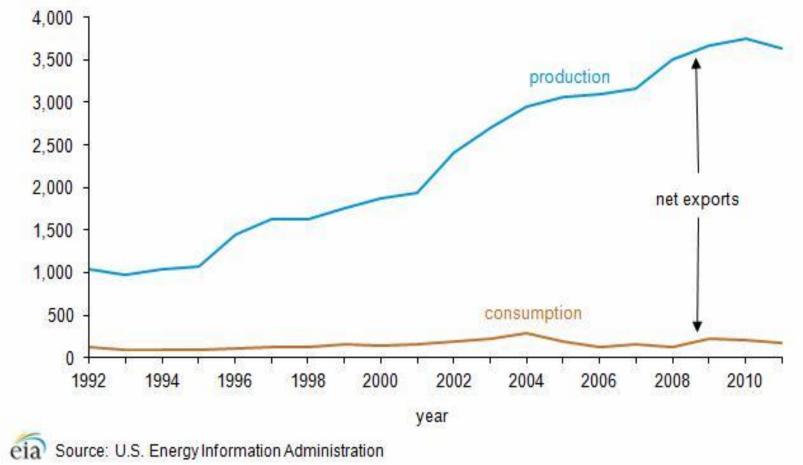
Norway total oil production and consumption, 1992-2011

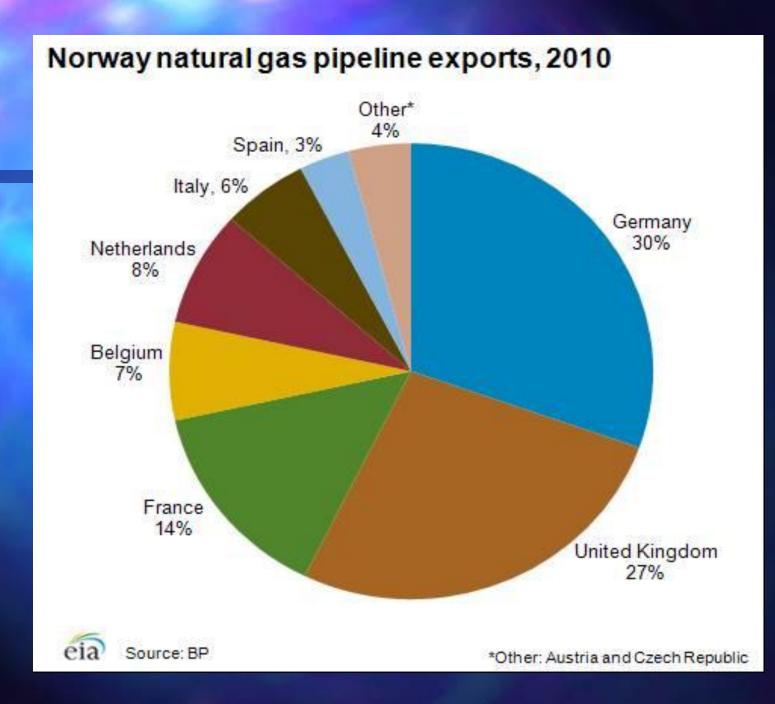
thousand barrels per day

4,000



Norway dry natural gas production and consumption, 1992-2011 billion cubic feet





MAJOR CORPORATIVE PLAYERS

RUSSIAN COMPANIES

GAZPROM, ROSNEFT, LUKOIL, SURGUTNEFTAGAZ <u>RUSSIAN COMPANIES WITH FOREIGN CAPITAL</u> TNK-BP, SAKHALIN-ENERG, OTRES <u>FOREIGN COMPANIES</u> EXONMOBIL, CHEVRON, ONGC, MITSUI, MITSUBICI, CNPC, KNOC, KOGAS, BP, ROYAL DUTCH/SHELL, OTHERS