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Saudi National Security and the Saudi-US Strategic Partnership:

Part One: The Civil & Economic Aspects of Security

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in Strategy

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Saudi Economics and National Security

*Economics and the Global
Economic Crisis*

Saudi Economic Policy

- **Countercyclical and Shaped by SAMA;**
- **Avoid budget deficit strains;**
- **Emphasize free market, and diversification;**
- **Except for petroleum resources;**
- **Give priority to internal stability, and particularly to employment, education, and social services;**
- **Seek to spread national investment and employment through tools like economic “cities.”**
- **Fully fund counterterrorism.**
- **Fund strong defense.**
- **Improve controls on possible financing of terrorism.**
- **Tightly control foreign labor**

Saudi Economic Risks

- **Impact of Global Financial Crisis;**
- **Future oil/hydrocarbon prices and revenues;**
- **Cost/uncertainties in expanding and sustaining hydrocarbon production.**
- **Inflation: Officially over 8%, Now double digit;**
- **Food prices and supply;**
- **Poor income distribution, comparatively low per capita income**
- **Peg to dollar: *revenue impacts, inflation, food costs, etc..***
- **Need for Saudization; diversification, job creation:
Unemployment at least 12%, 25% for 20-29 age group.
Underemployment much higher.**
- **Capital cost imposed by expanding population, past underinvestment, demographics, and job creation.**

Trend in Saudi Economy & Budget: 2010

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Scale of Current government projects
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Saudi Moves Towards Recovery: 2010

- Saudi Arabia posted its first budget deficit in 2009 in eight years as government revenues fell by over 54% to SAR505bn.
- Despite increased spending, the actual deficit of SAR45bn fell short of the budgeted SAR65bn, thanks to a rebound in crude oil prices. The average YTD OPEC basket oil price was significantly higher than the USD44 assumed in the 2009 budget.
- Driven by higher government spending, the Kingdom's economy expanded by a real 0.15% in 2009. In the face of a sharp oil sector contraction due to restricted quotas and lower prices, growth was largely driven by the non-oil sector which
 - expanded by 3.0%.
- The government sector with 4.0% growth was a particularly important source of resilience while the private sector expanded by 2.5%.
- For 2010, the government projects revenues of SAR470bn, 14.6% higher than the SAR410bn budgeted in 2009. Spending is set to expand by 13.7% to SAR540bn from SAR475bn. The deficit is set to broadly match this year's figure at SAR70bn, or \$18.7 billion) as the Arab world's largest economy focuses on development and job creation.
- The oil price remains the key risk for the Saudi economic outlook in 2010. OPEC now expects a 0.8% increase in total crude oil consumption to 84.93 mb/d in 2010.

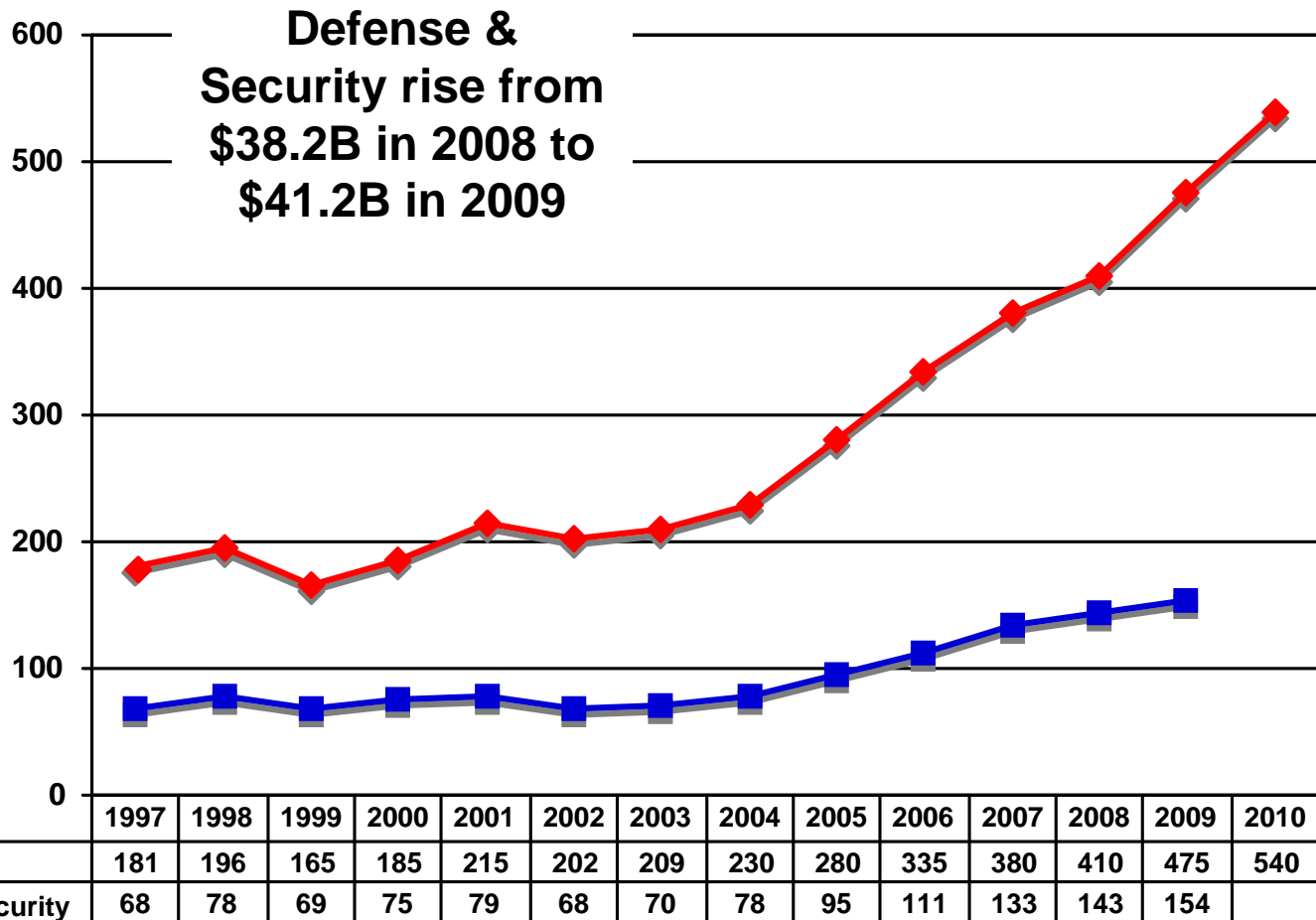
Saudi Arabia macroeconomic indicators

	2005	2006	2007	2008	2009*	2010e
Real GDP Growth (%)	6.1	3.2	3.4	4.5	0.1	3.8
Hydrocarbon	7.8	-0.8	0.5	5.0	-5.9	4.3
Non-hydrocarbon	5.2	5.1	4.7	4.3	3.0	3.6
Inflation (%)	0.7	2.4	4.0	9.9	4.4	5.0
Current account balance (% of GDP)	29.3	27.8	24.9	29.2	5.5	0.7
Fiscal balance (% of GDP)	18	21.2	12.4	34.1	-3.3	5.5

Source: NCB Capital, SAMA, Saudi Ministry of Finance, SAMBA

Saudi Budget Projections: National Security vs. Total

(In Billions of Current Riyals)



Source: SAMA, 2008

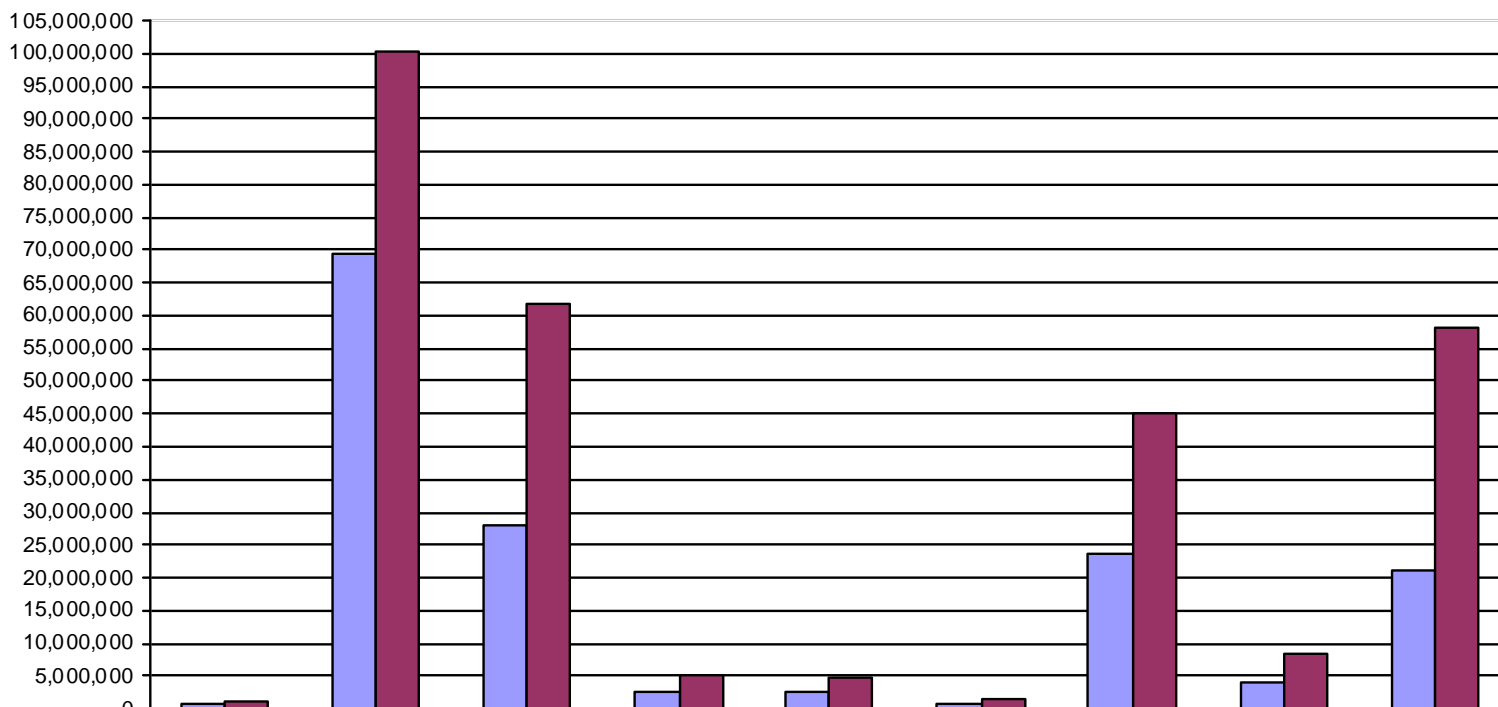
Demographics and Income

Economics and Demographics

- **Generation of demographic pressure on the labor force enters critical period: 30-40% at 14 years or younger.**
- **Too little competitiveness, too much dependence on foreign labor. Chronic “un” and “under” employment.**
- **Unpredictable scale of global economic crisis pressure: All of North Africa, Levant, Iran and Iraq, and:**
 - **Bahrain, Oman, parts of UAE, Saudi Arabia (?)**
 - **End to bubble economics in the Gulf**
 - **Pressure from Yemen and the Horn**
- **Educational issues; work ethic, job pull: “Lost generation?” “Alienation” and extremism?**
- **Income distribution and equity.**

Total Population of Gulf States: 2005 vs 2050

(UN Data)



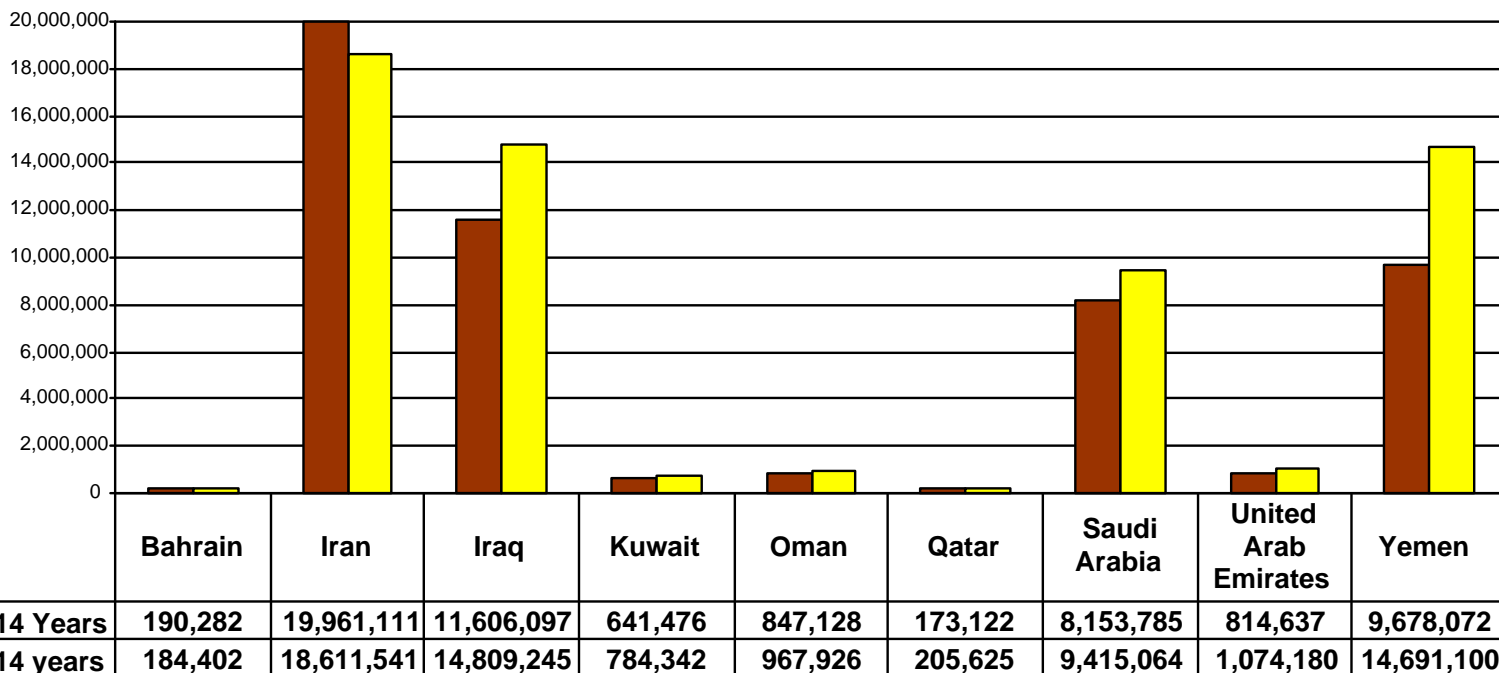
	Bahrain	Iran	Iraq	Kuwait	Oman	Qatar	Saudi Arabia	United Arab Emirates	Yemen
Population 2005	724,788	69,420,607	27,995,984	2,700,000	2,507,042	796,186	23,612,360	4,104,291	21,095,679
Estimated Population 2050	1,173,037	100,173,596	61,941,632	5,240,174	4,638,971	1,333,342	45,030,295	8,520,789	58,008,932

Note: Estimates for 2030 and 2050 are based on median variant projections

Source: Adapted by Anthony H. Cordesman from the United Nations Population Division's annual estimates and projections

Population of Gulf States Ages 0-14 Years: 2005 vs 2050

(UN Data)

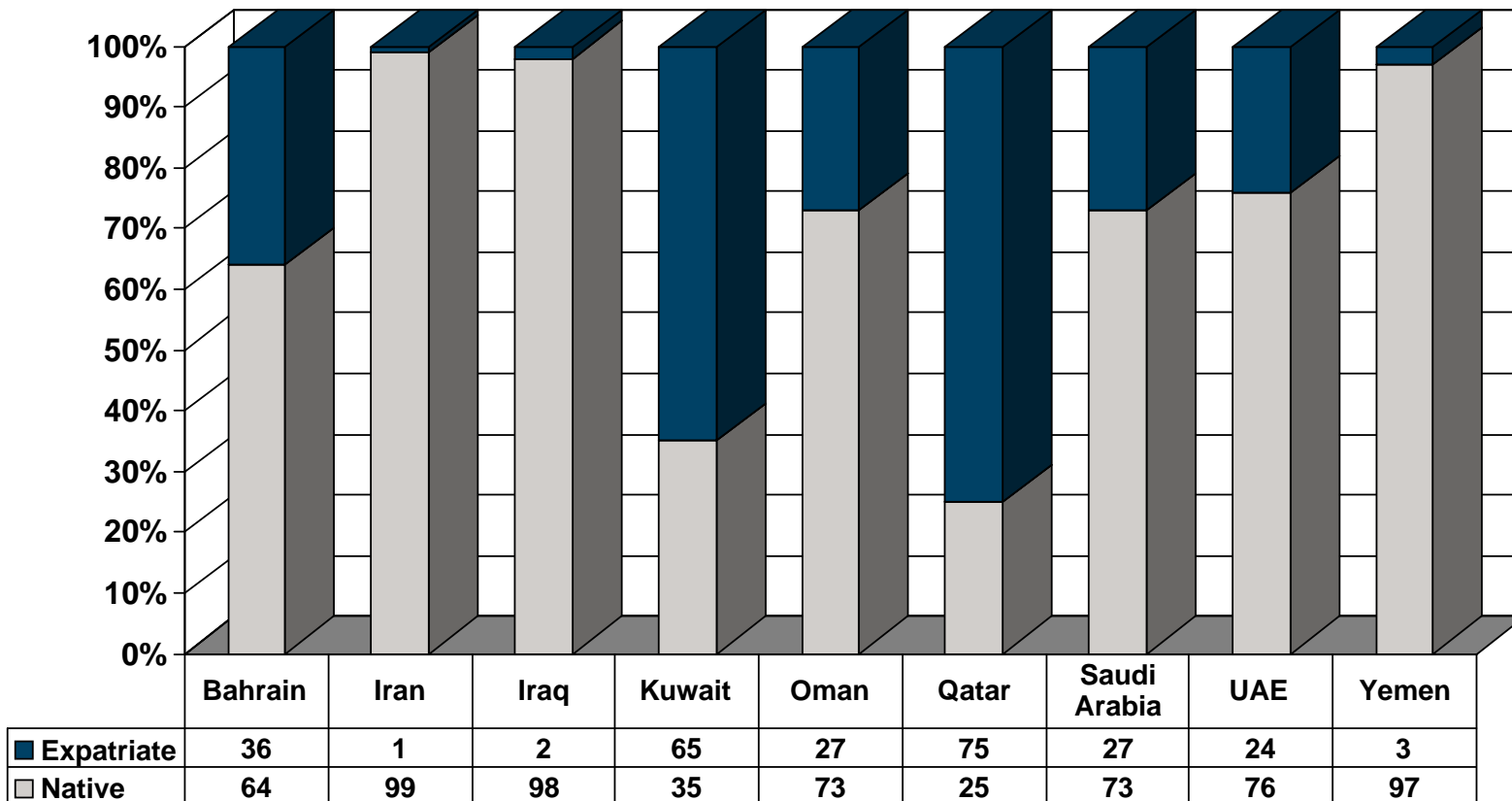


Note: Estimates for 2030 and 2050 are based on median variant projections

Source: Adapted by Anthony H. Cordesman from the United Nations Population Division's annual estimates and projections

Native vs. Foreign Population of Gulf States: 2010

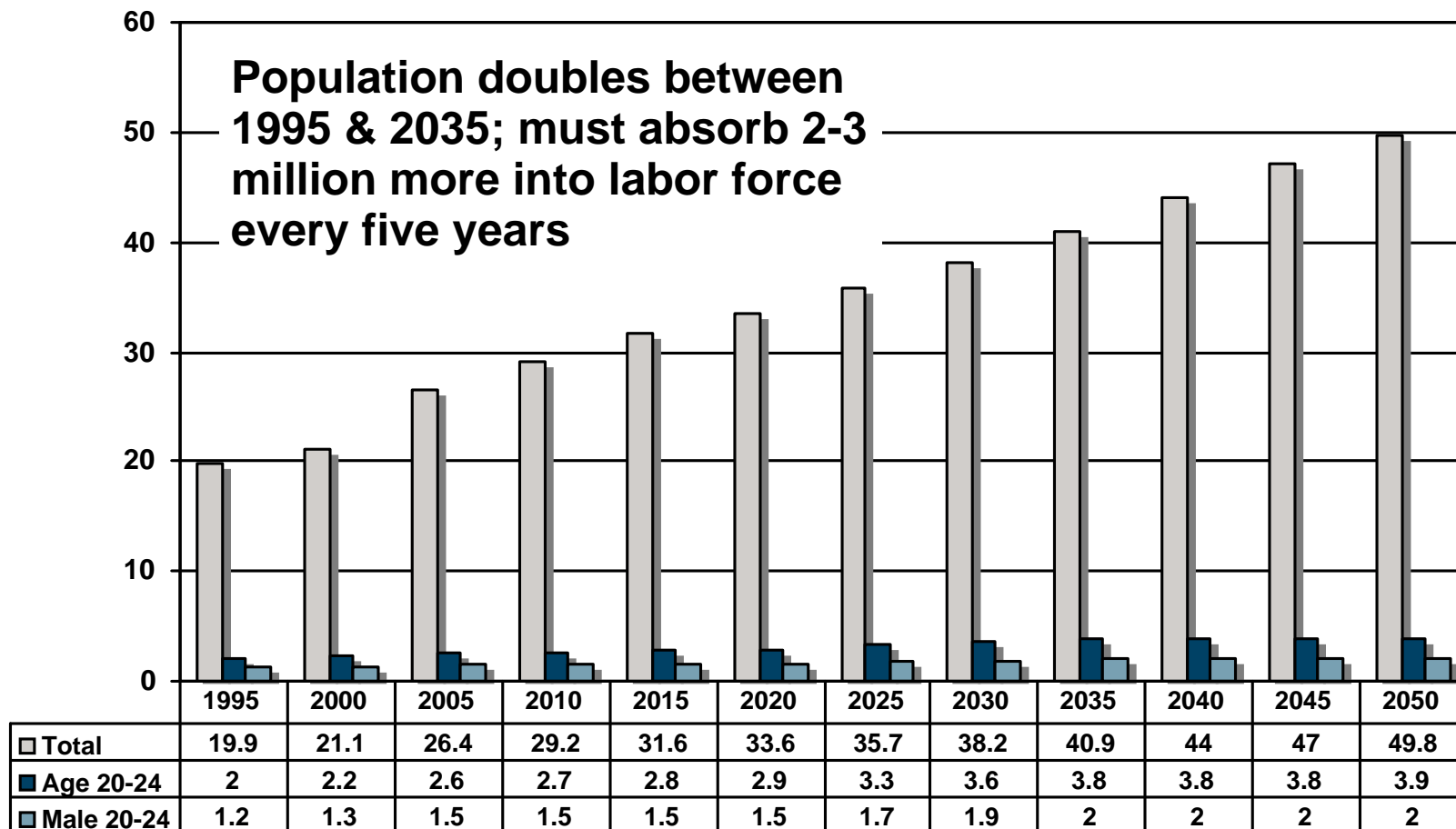
(Percent)



Ethnic and Sectarian Divisions in Gulf States

- **Bahrain:** 64% Native Arab (majority Shi'a); 36% Expatriate, of which 13% Asian, 10% other Arab, 8% Iranian, 1% European. Muslim (Shia and Sunni) 81.2%, Christian 9%, other 9.8% (2001 census)
- **Iran:** 51% Persian, 24% Azeri, 8% Gilaki/Mazandarani, 7% Kurd, 3% Arab, 2% Lur, 2% Balouch, 2% Turcoman. Muslim 98% (Shia 89%, Sunni 9%), other (includes Zoroastrian, Jewish, Christian, and Baha'i) 2%
- **Iraq:** 75-80% Arab (55% Shi'a, 45% Sunni), 20-25% Kurd, 5% Turcoman, Assyrian, Chaldean or Other. Muslim 97% (Shia 60%-65%, Sunni 32%-37%), Christian or other 3%.
- **Kuwait:** 35% Native; 65% Expatriate, of which 35% other Arab, 9% South Asia, 4% Iranian, 17% Other
- **Oman:** 73% Native 27% Expatriate (Arab, Baluchi, South Asian (Indian, Pakistani, Sri Lankan, Bangladeshi), African; Ibadhi Muslim 75%, other (includes Sunni Muslim, Shia Muslim, Hindu) 25%
- **Qatar:** 25% Native Arab; 75% Expatriate (of which, 18% Indian, 18% Pakistani, 10% Iranian, 14% other). Muslim 77.5%, Christian 8.5%, other 14%.
- **Saudi Arabia:** 73% Native Arab (of which 10% Bedouin, 6% Native Shi'a); 27% Expatriate, of which 20% Asian, 6% Other Arab, 1% African & less than 1% European. Muslim: "100%"
- **UAE:** 20-24% Native; 76-80% Expatriate (of which 30% Indian, 20% Pakistani, 12% other Arab, 10% Other Asian, 2% UK, 1% Other European. Muslim 96% (Shia 16%), other (includes Christian, Hindu) 4%
- **Yemen:** Predominantly native Arab; but also Afro-Arab, South Asians, Europeans. Muslim including Shaf'i (Sunni) and Zaydi (Shia), small numbers of Jewish, Christian, and Hindu

Saudi Population Pressure: 1995-2050



Source: US Census Bureau, IDB data base, The 4th Saudi Census began this year, but results are not yet available. Saudi data do not provide similar projections, but some Saudi data indicate the population of the Eastern Province rose from 762,000 in 1974 to 2,575 million in 1992, 3.36 million in 2004, and 3.54 million in 2007. Some experts feel Saudi Arabia exaggerated its data in the past to disguise its lack of population relative to nations like Iran. Others feel Saudi sampling has been relatively accurate, at least since the 3rd census.

Saudi “Youth Bulge”

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decompressor
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- **29, 207,000 total population**
- **Population growth rate = 1.8 % annually, down from 3.5% in 1995**
- **824,000 births in 2010.**
- **50% of population is 19 years of age or younger.**

Shi'ite Demographics (Dated)

TOTAL POPULATION : 23,118,994 (Native Saudi : 16,854,157, Foreign : 6,264,837)

EASTERN PROVINCE : Total Population : 3,360,157

Native Sunni : 1,541,379

Native Shi'a : 914,765

Foreign : 944,013

The two main regions in the Eastern Province where there are the largest concentrations of native Twelvers Shi'as are the governorship of Qatif and Al Hassa.

- In Qatif, with a population of 474,573 in 2005, there is an estimated 87% Shi'a majority. There is a small community of mainly foreign workers that make up 59,808 of the registered inhabitants of the governorship. The Qatif governorship includes all the overwhelming Shi'a major urban cities such as Qatif city, Saihat, Safwa, Awamiyah and Tarut.
- In Hasa, with a population of 908,366 in 2005, there is an estimated 40% to 45% Shi'a minority. The capital and the largest city by far of the governorship is Hufuf with a population of over 302,841 in 2005. It is a predominantly Sunni city. There is also a small community of foreign workers.
- In the urban triangle of Dammam (the capital of the Eastern Province), Al Khobar and Dhahran, there is also a small Shi'a community that is estimated to have grown to just over 100,000 in 2005 between the three cities.

NAJRAN PROVINCE : Total Population : 419,457

Native Sunni : 124,457

Native Ismaeli : 224,776

Foreign : 70,224

In Southern Province of Najran, with a population of 419,457 inhabitants in 2005, there is an estimated 55% Ismaeli majority. Although a small community with a distinct history revolving around a tribe (Bani Yam), the Ismaelis form a clear majority in Najran.

MADINAH PROVINCE : Total Population : 1,512,076

Native Sunni : 1,207,690 (Minimum Estimate)

Native Shi'a : 80,000 (Average Estimate)

Foreign : 224,386

In the Province of Madinah, with a population of 1,512,076 inhabitants in 2006, there is an estimated 90% Sunni majority. There is a sizeable community of foreign workers that make up 224,386 of the registered inhabitants of the Province. There is a small native Shi'a Twelvers Community in Madinah city that numbers between 50,000 to 75,000. There is also a village outside Madinah city that is populated by a 5,000 to 7,500 native Shi'a twelvers community.

TOTAL SHI'ITE POPULATION :

1) Eastern Province = 914,765

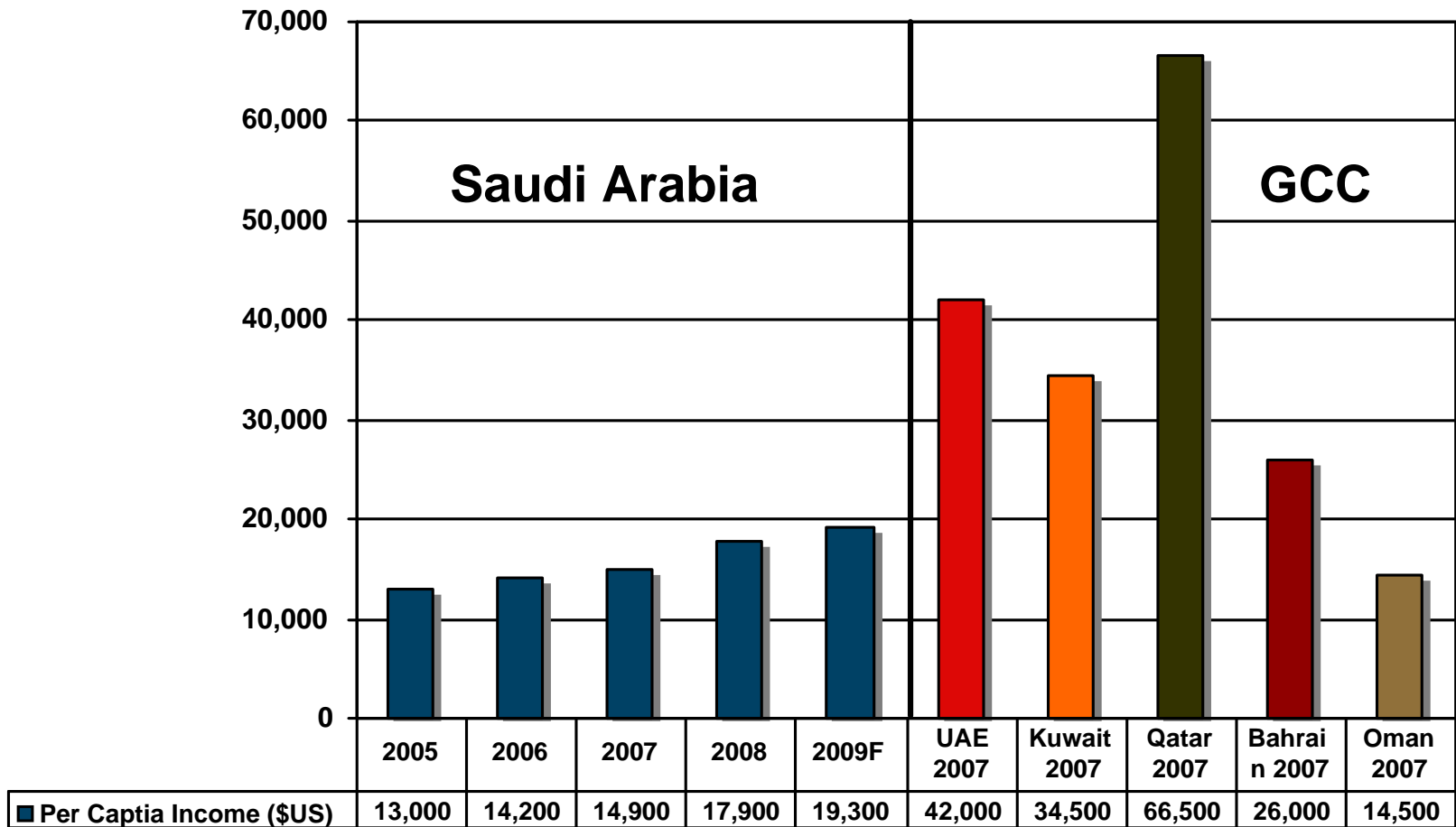
2) Najran Province = 224,776

3) Madinah Province = 80,000 (Average Estimate)

4) Other = 100,000 (Average for small displaced Shi'a communities around Kingdom)

TOTAL 1,319,541 (represent 8% of the native Saudi population base, and 6% of the total population base in the Kingdom for the year 2005-2006.

The GCC Per Capita Income Challenge: 2008 (Pre-Financial Crisis)

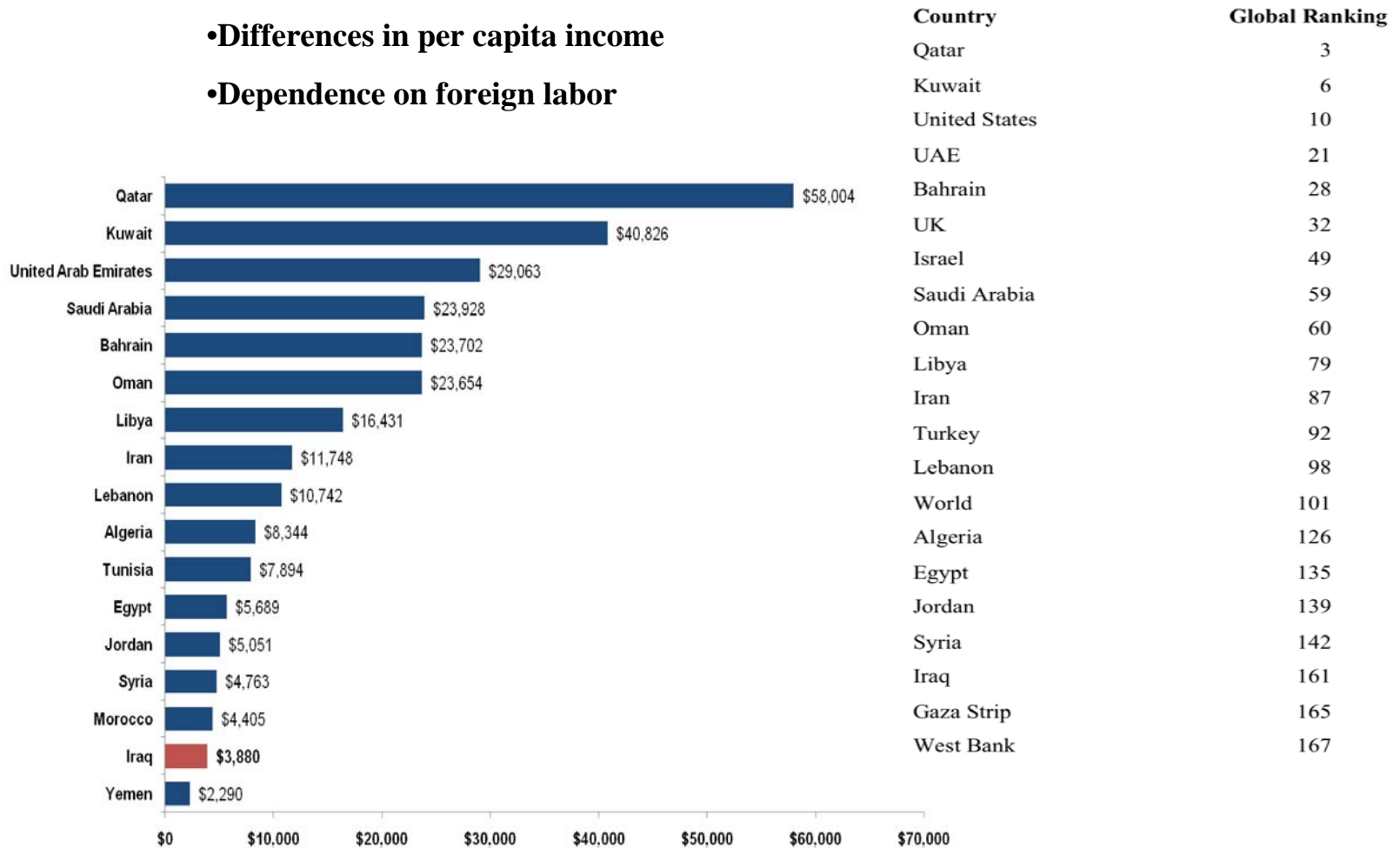


Source: SAMBA, June 2008

Key Disparities in the GCC States

Increase in oil wealth is matched by major growth in non-oil sector, but major problems remain:

- Income distribution
- Differences in per capita income
- Dependence on foreign labor



Economics and Energy Exports

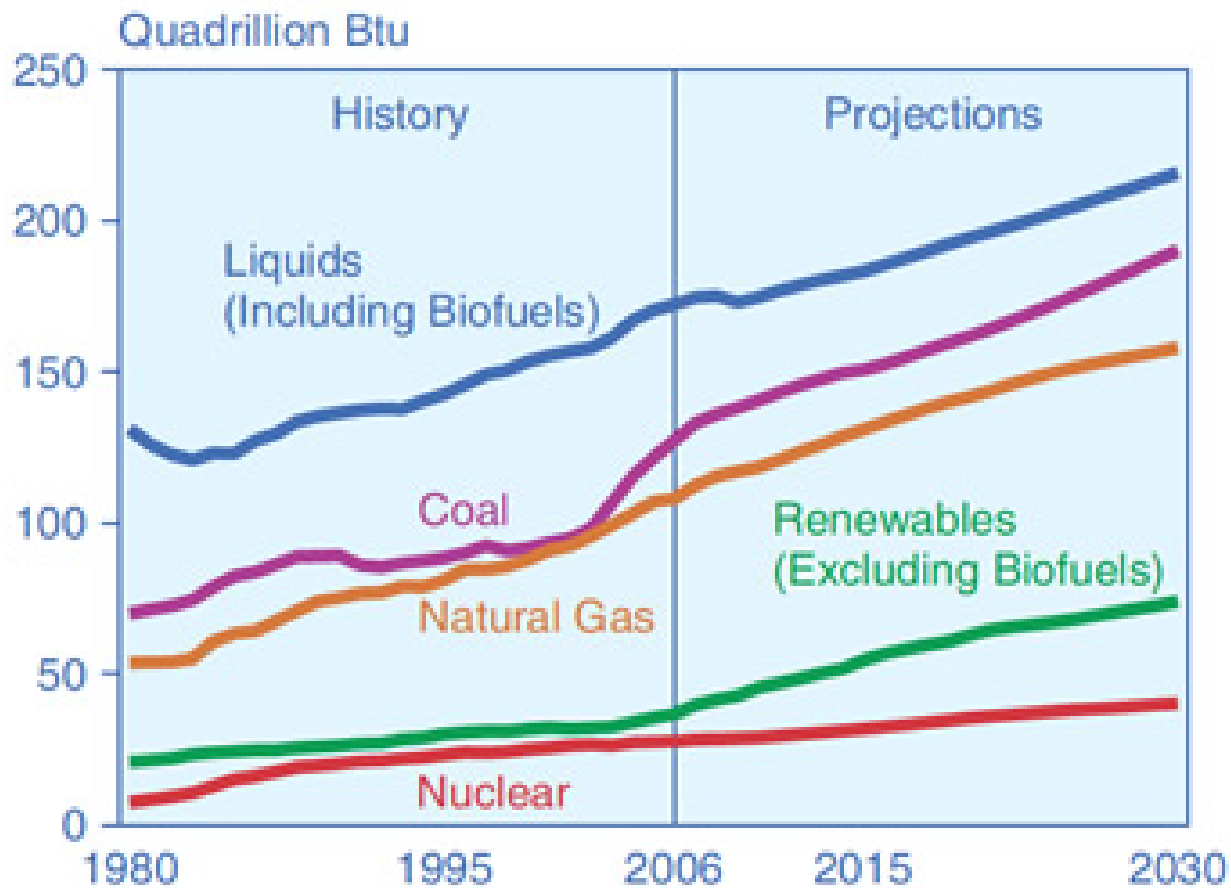
Basic Economic Realities Do Not Change. *But Oil Revenues Do - I*

- **GDP in PPP was \$581.3 billion in 2009. Was \$584.8 in 2008 and \$560.2 in 2007.**
- **Oil-based economy with strong government controls over major economic activities.**
- **Possesses more than 20% of the world's proven petroleum reserves, ranks as the largest exporter of petroleum, and plays a leading role in OPEC.**
- **Petroleum sector accounts for roughly 80% of budget revenues, 45% of GDP, and 90% of export earnings**
- **High to moderate oil prices boosted growth, government revenues, and Saudi ownership of foreign assets in 2004-2008, while enabling Riyadh to pay down domestic debt in spite of economic crisis.**
- **Organization of the Petroleum Exporting Countries (OPEC) earned \$573 billion in net oil export revenues in 2009, a significant decrease from previous peaks. Saudi Arabia earned the largest share of these earnings, \$154 billion – but earned 194 billion in 2007.**
 - **But, per capita oil income was \$5,366 versus \$25,206 for Qatar, \$17,078 for Kuwait, \$10,857 for UAE.**
 - **Iraq was only \$1,297; Iran \$820.**

Basic Economic Realities Do Not Change. *But Oil Revenues Do - II*

- **28.7 million people; some 5.6 million foreign.**
- **Roughly 6.9 million workers: about 80% foreign.**
- **Ppp per capita income was \$20,300 in 2009. Roughly same as 2007 and 2008.**
- **Encouraging private sector growth - especially in power generation, telecommunications, natural gas exploration, and petrochemicals - to lessen the kingdom's dependence on oil exports and to increase employment opportunities for the swelling Saudi population,**
- **Some 38% of are youths under 15 years old; mean age is only 22.**
- **Unemployment is high (11.6-25%), and the large youth population generally lacks the education and technical skills the private sector needs. Riyadh has substantially boosted spending on job training and education, infrastructure development, and government salaries.**
- **Government is establishing six "economic cities" in different regions of the country to promote development and diversification. Spends 6.8% of GDP on education – 28th in world.**

EIA: World Energy Use: 1980-2030



Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 2006* (June-December 2008), web site www.eia.doe.gov/iea. **Projections:** EIA, *World Energy Projections Plus* (2009).

Trends in Gulf Oil Revenues: 1975-2011

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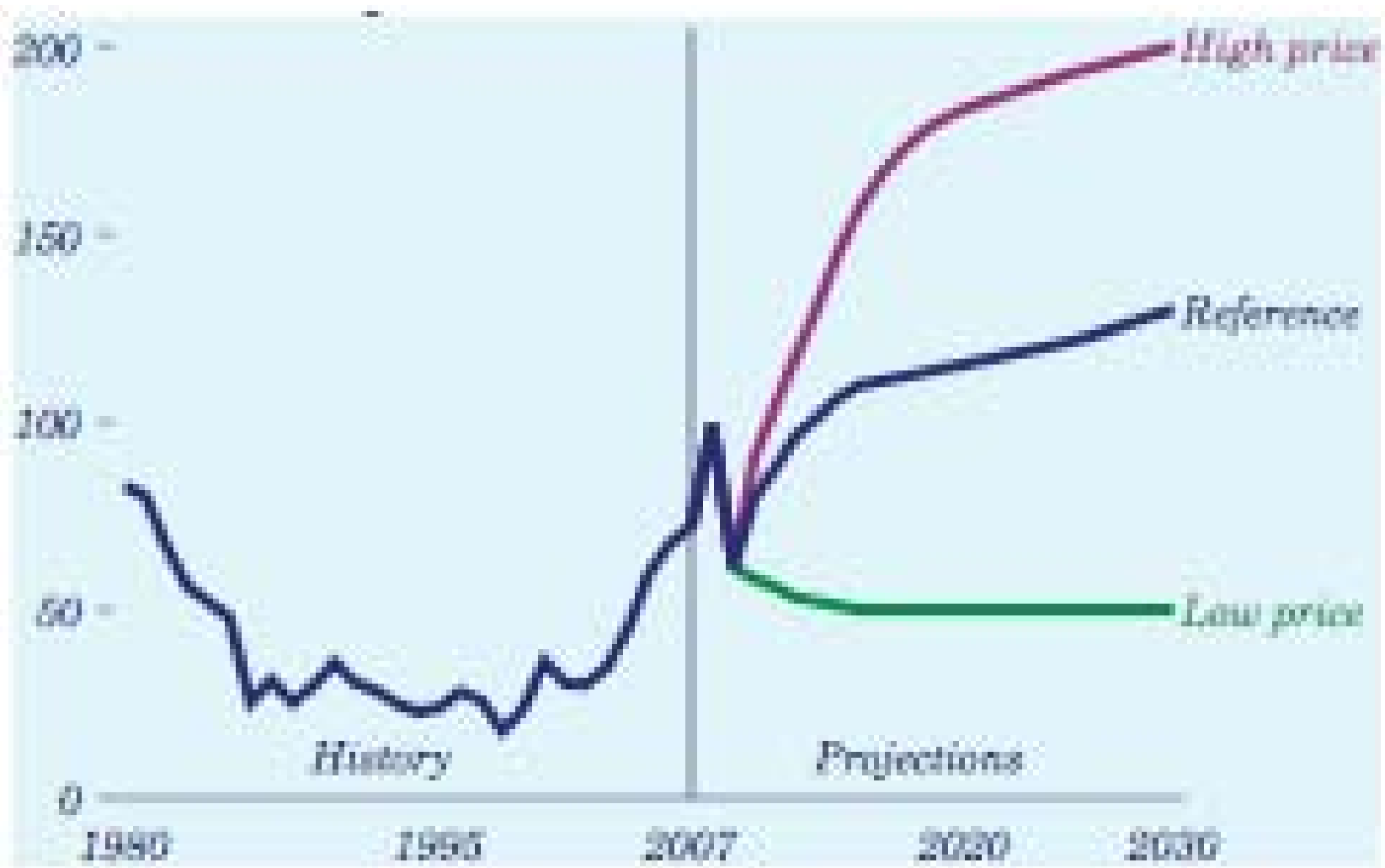
Trends in Per Capita Gulf Oil Revenues: 1975-2011

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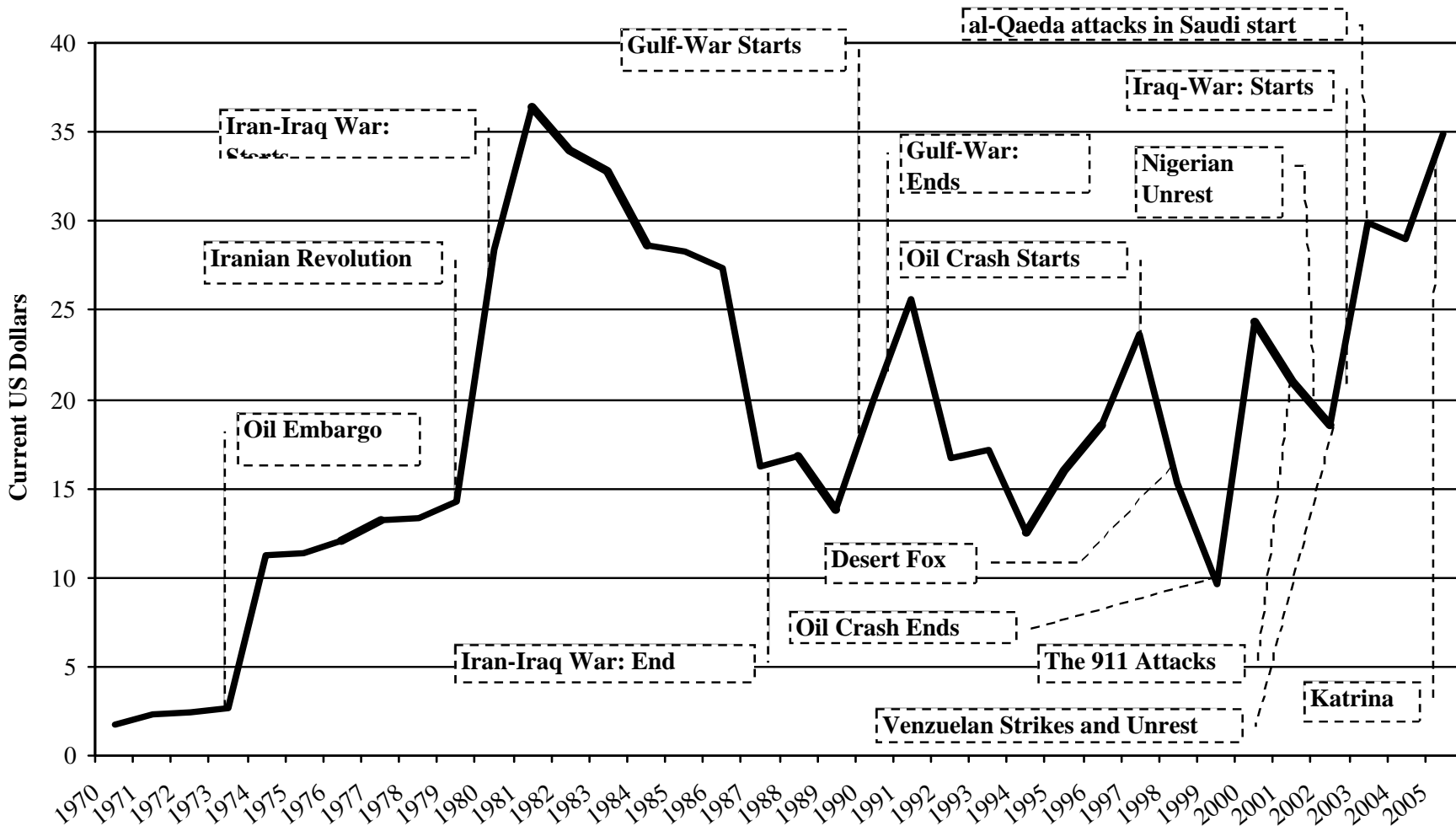
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EIA Estimates of Future World Oil Prices



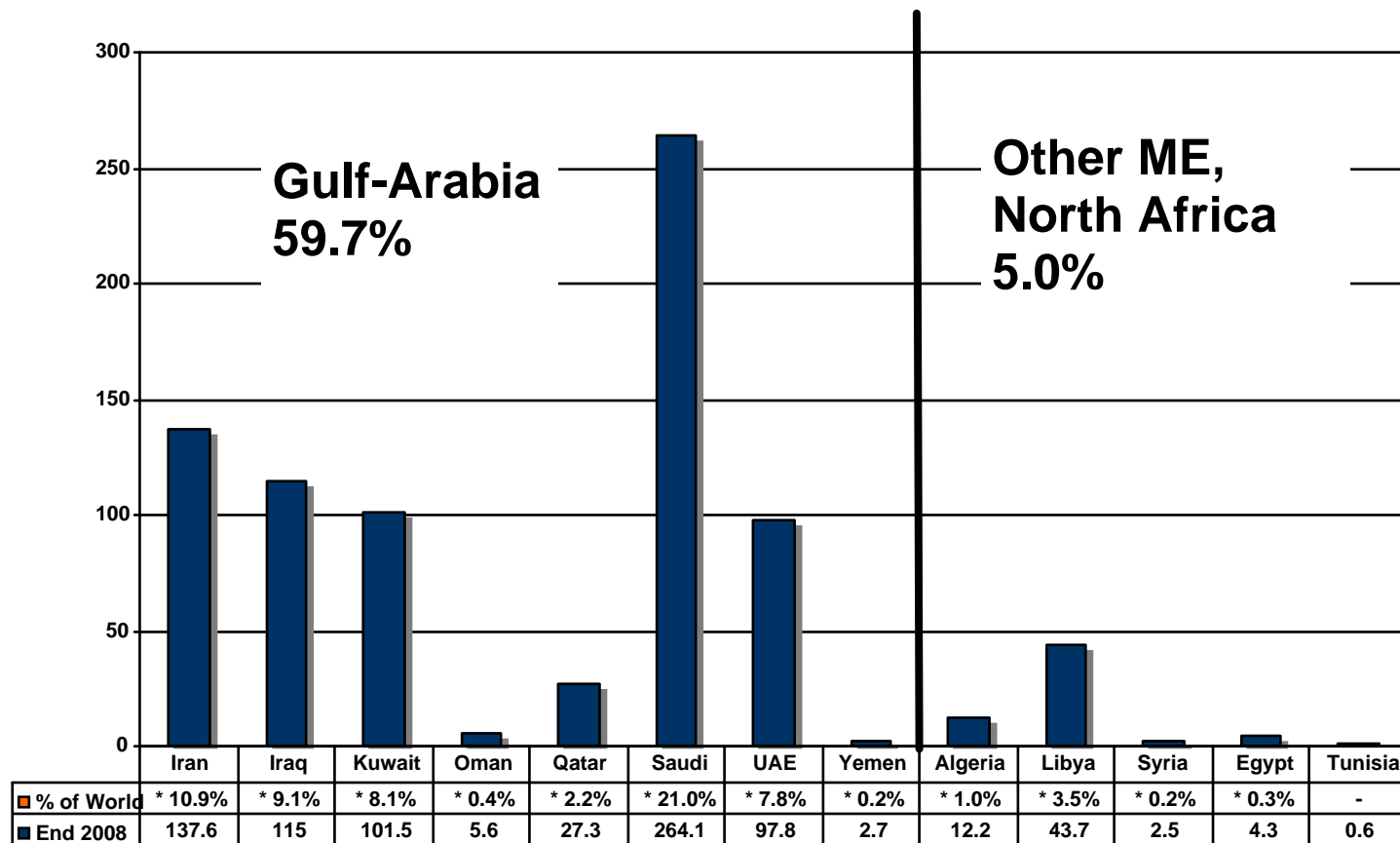
History of Oil Shocks: Pre-\$100 Oil

Overtimes: more incidents, more frequent volatility, higher risk of asymmetric attacks, and more geopolitical uncertainties.



Source: EIA, "Crude Prices by Selected Type 1970-2005," <http://www.eia.doe.gov/emeu/aer/txt/ptb1107.html>.
 Note: These prices are averages of several types: Saudi Light, Iranian Light, Libyan Es Sider, Nigerian Bonny Light, Indonesian Minas, Venezuelan Tia Juana light Mexico Maya, and UK Brent blend

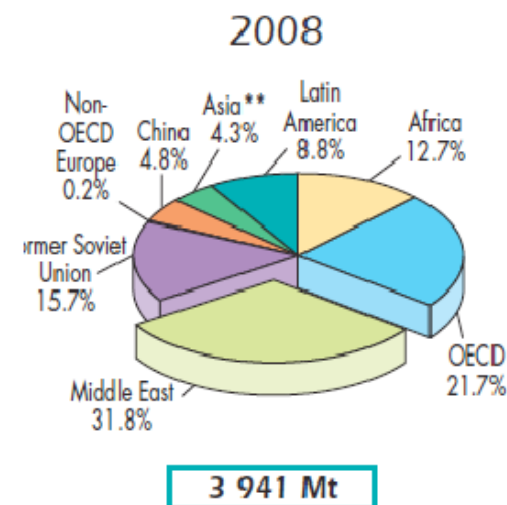
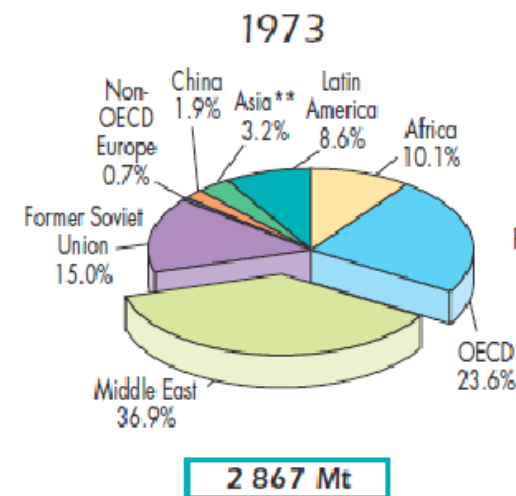
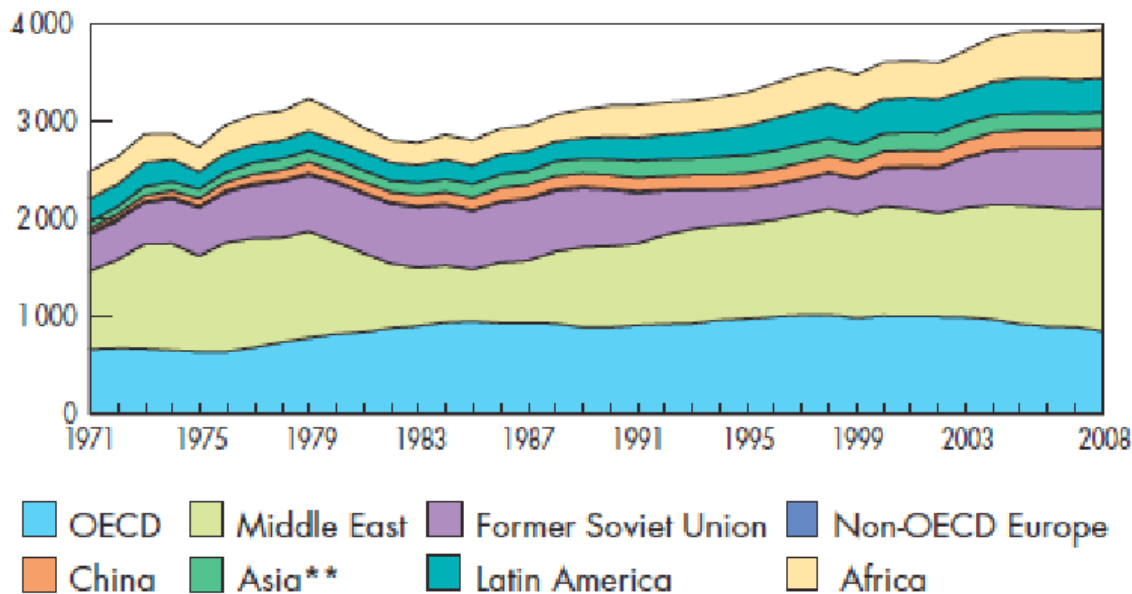
BP Projection of Proven Oil Reserves By Gulf and MENA Country: In Billions of Barrels Per Day



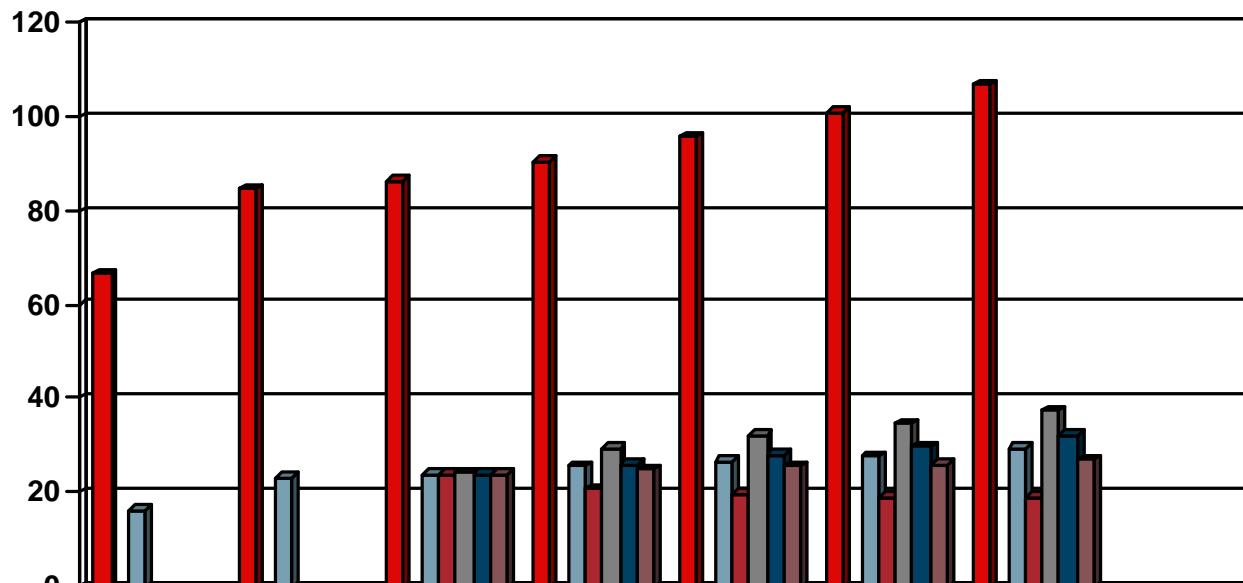
Notes: Proved reserves of oil – Generally taken to be those quantities that geological and engineering information indicates with reasonable certainty can be recovered in the future from known reservoirs under existing economic and operating conditions. Reserves-to-production (R/P) ratio – If the reserves remaining at the end of any year are divided by the production in that year, the result is the length of time that those remaining reserves would last if production were to continue at that rate. Source of data – The estimates in this table have been compiled using a combination of primary official sources, third-party data from the OPEC Secretariat, *World Oil*, *Oil & Gas Journal* and an independent estimate of Russian reserves based on information in the public domain. **Canadian proved reserves include an official estimate of 22.0 billion barrels for oil sands 'under active development'**. Reserves include gas condensate and natural gas liquids (NGLs) as well as crude oil. Annual changes and shares of total are calculated using thousand million barrels figures.

Middle East Remains Critical Oil Producer After 35 Years of Effort to Find Alternatives

Evolution from 1971 to 2008 of crude oil* production by region (Mt)

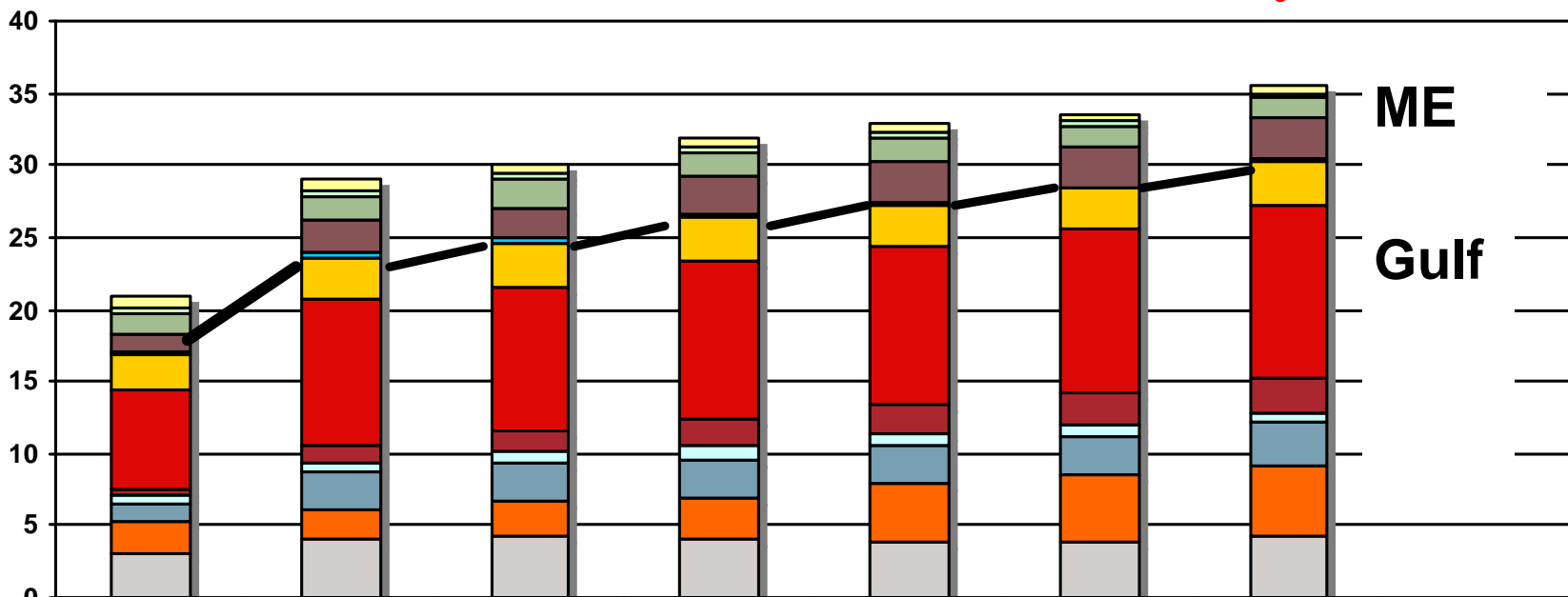


EIA Projections of Gulf OPEC Oil Production 1990-2030: In Millions of Barrels Per Day



	1990	2007	2010	2015	2020	2025	2030	% Change 06-30
World-Reference	66.5	84.8	86.3	90.6	95.9	101.1	106.9	*1.0
Gulf OPEC								
---Reference	16.1	23.1	23.8	25.4	26.7	27.8	29.5	* 0.9
---High Oil Price			23.8	20.8	19.6	19	19.1	* -0.9
---Low Oil Price			24.1	29.3	32.2	34.8	37.6	* 2.0
---High Econ Growth			23.9	26	28.1	29.7	32.3	* 1.3
---Low Econ Growth			23.8	24.8	25.5	25.9	26.9	* 0.5

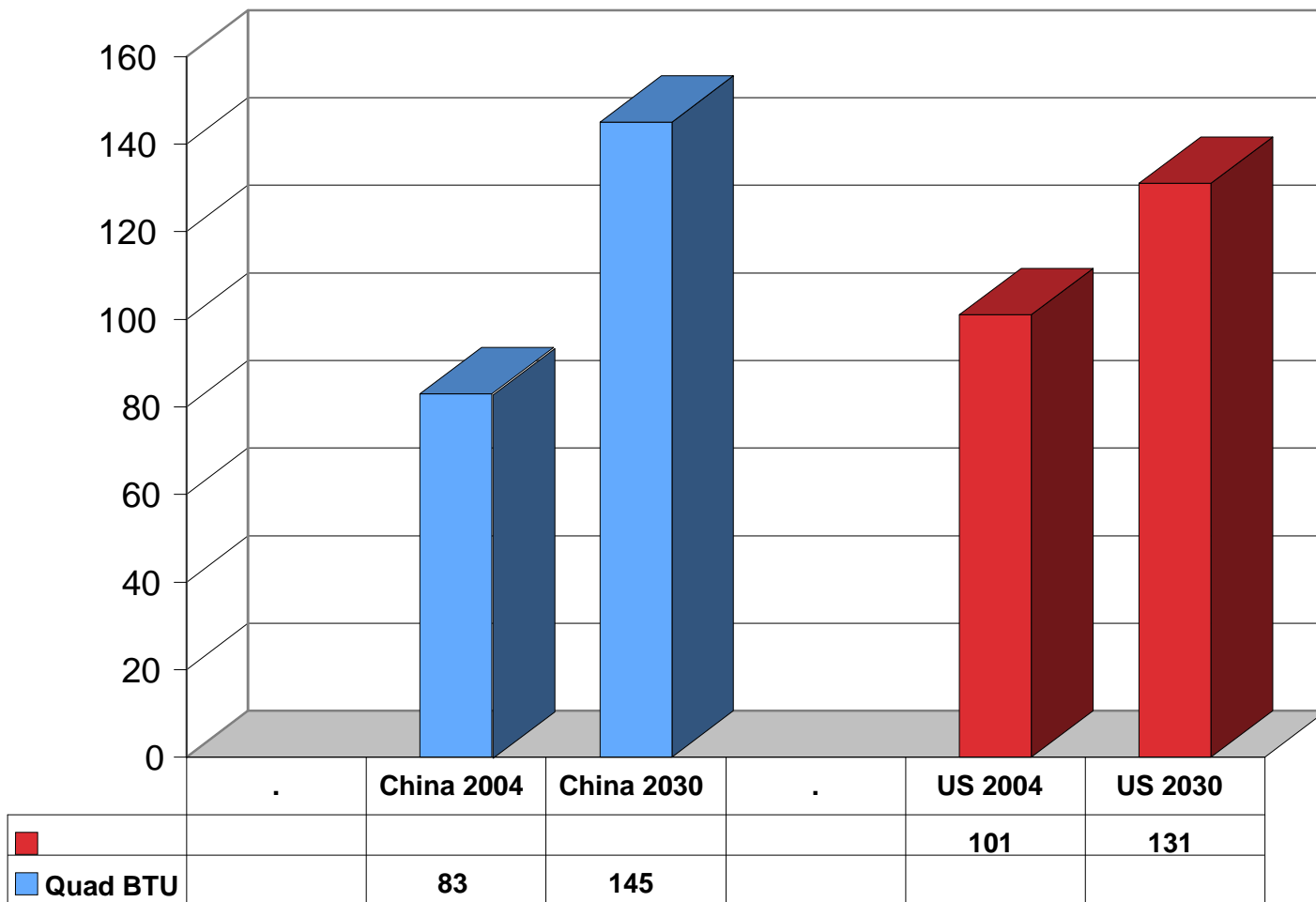
EIA Projections of Gulf/ME Oil Production By Country 1990-2030: In Millions of Barrels Per Day



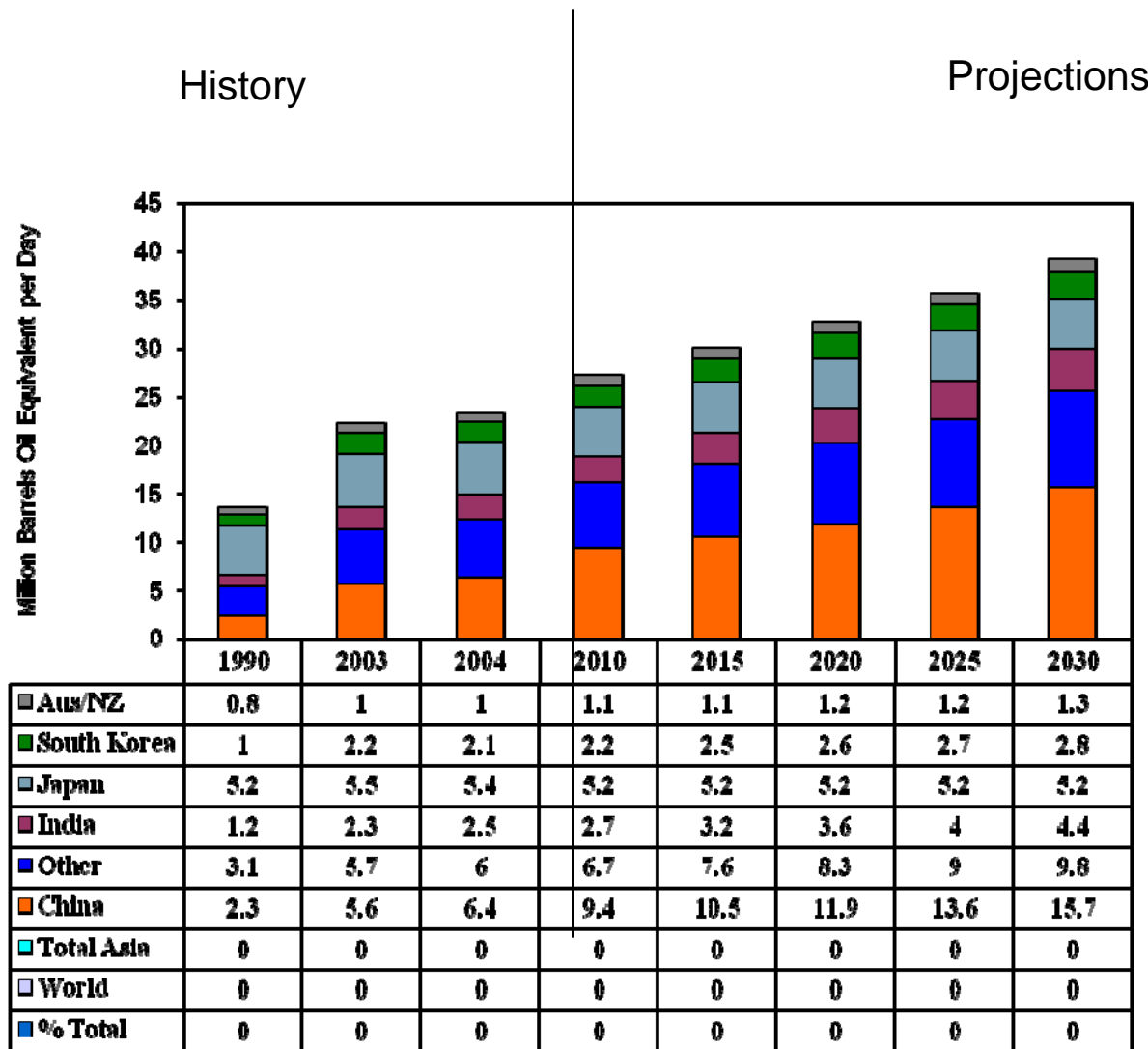
	1990	2007	2010	2015	2020	2025	2030	% Change 06-30
■ Egypt	0.9	0.7	0.5	0.6	0.6	0.6	0.6	* -0.2
■ Syria	0.4	0.4	0.5	0.4	0.4	0.3	0.3	* -1.5
■ Libya	1.4	1.8	1.9	1.7	1.5	1.5	1.5	* 0.1
■ Algeria	1.3	2.2	2.2	2.7	2.8	2.8	2.8	* 3.9
■ Yemen	0.2	0.3	0.3	0.2	0.2	,2	0.2	* -3.7
■ UAE	2.3	2.9	3	3	2.9	2.9	2.9	* 0.3
■ Saudi	7	10.2	10	10.9	11	11.3	12	* 3.3
■ Qatar	0.4	1.1	1.4	1.9	2.1	2.3	2.5	* 0.5
■ Oman	0.7	0.7	0.8	0.9	0.7	0.7	0.7	* -0.2
■ Kuwait	1.2	2.6	2.7	2.7	2.6	2.7	2.9	* -0.1
■ Iraq	2.1	2.1	2.5	2.9	4.2	4.6	5	* 0.5
■ Iran	3.1	4	4.2	4	3.8	3.9	4.2	* -0.1

Growth of China and US Energy Demand

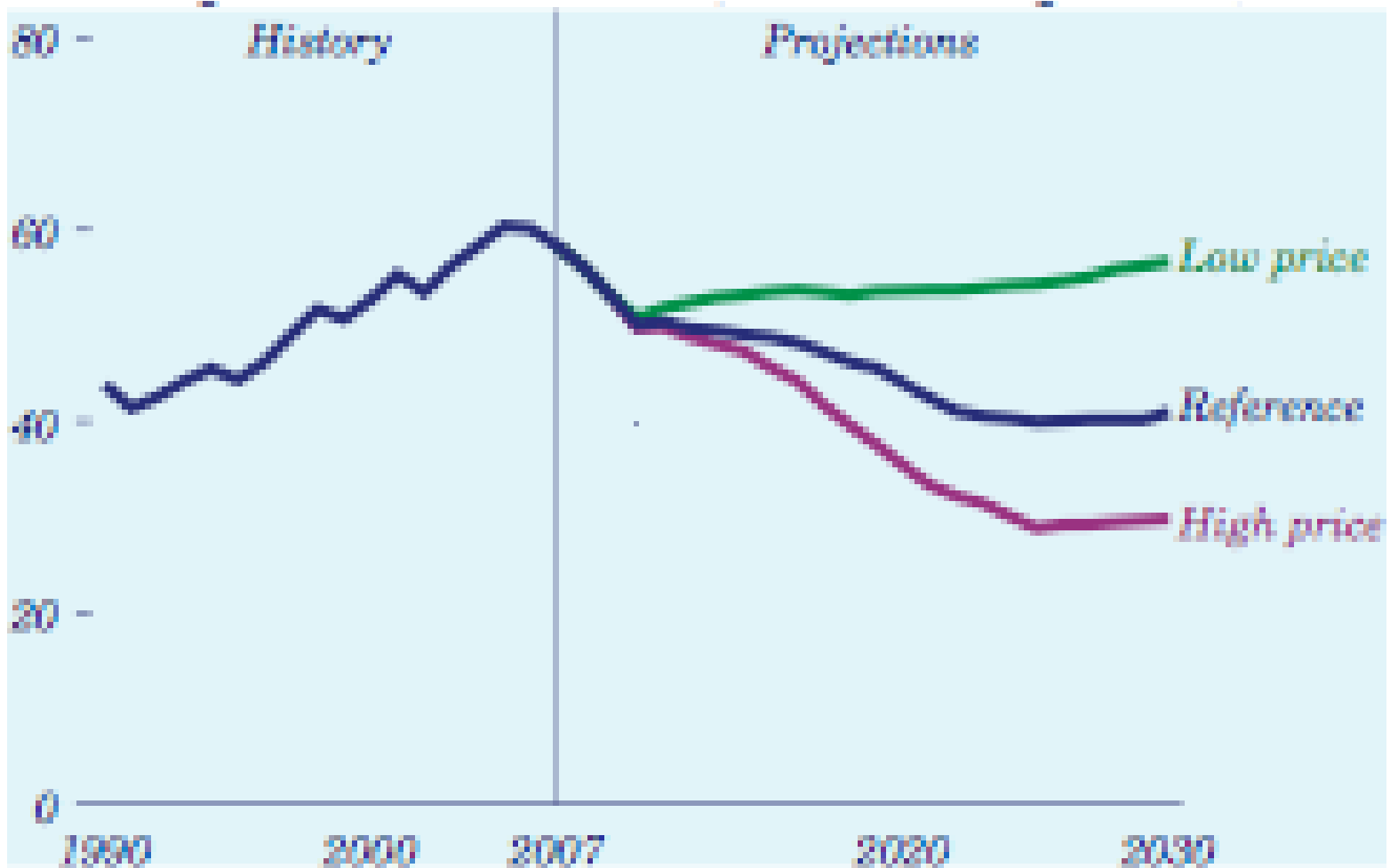
Consumption of Energy in Quadrillion BTUs: 2004 vs. 2030



Impact of Rising Asian Liquids Consumption in the EIA Reference Case, 1990-2030



Net Import Share of U.S. Liquid Fuels Consumption, 1990-2030 (2009 Estimate) in Percent



Economics and Demographics

- **Generation of demographic pressure on the labor force enters critical period: 30-40% at 14 years or younger.**
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