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主要研究领域: 产业经济、能源市场 近年来主持和参与"中国天然气产业政策 研究"、"中国石油安全对策研究"、"中国 石油流通体制改革研究"等十余项课题的 研究工作,在《求是》、《经济日报》、 《国际石油经济》等报刊发表论文数十篇



1200 Session 5 Keynote Presentation

Price Change of International Crude Oil: History, Mechanism, Tendency

1200 议题五 主题演讲

国际原油价格变化:历 史、机理与趋势分析



























Variation Situation in Oil Reserves Ratio of the 7 Largest Oil Company in 1946 & 1956						
Area	Year	Reserves		Rati	0 (%)	
		(100 Mil Tons)	5 in US	Shell	BP	Total of 7
Capitalism	1946	77.36	44.6	8.9	20.5	74.0
Countries	1956	243.48	54.2	8.5	20.1	82.8
US	1946	27.42	39.2	4.0	_	43.2
	1956	40.70	42.3	4.0	_	46.7
Under	1946	49.56	47.8	11.7	31.9	91.4
Develop Countries	1956	197.54	56.7	9.5	24.8	91.0
Venezuela	1946	10.27	69.0	28.9	_	97.9
	1956	18.14	73.5	23.2	_	96.7
Middle &	1946	34.66	44.0	4.7	45.6	94.3
Near East	1956	170.13	56.6	6.9	28.8	92.3

		n Situati gest Oil		-		
Area	Year	Output		Rati	0 (%)	
		(10k Tons)	5 in US	Shell	BP	Tota
Capitalism Countries	1946	34,864.5	35.4	8.3	6.1	49.8
	1956	74,311.9	40.9	11.3	6.5	58.7
US	1946	23,432.3	28.7	4.0	-	32.7
	1956	35,371.7	25.6	4.9	_	30.4
Under Develop Countries	1946	11147.3	50.2	17.3	19.0	86.5
	1956	35,607.6	55.6	18.4	13.5	87.5
Venezuela	1946	5,682.3	71.9	25.5	_	97.4
	1956	13,152.4	67.8	28.9	_	96.7
Middle &	1946	3,427.2	31.4	3.0	61.9	96.3
Near East	1956	17,077.3	55.8	7.3	27.8	90.9

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Rat	io of Refi Oil	nery Abi Compan	•		gest
Area	Total Refinery		Ratio	o (%)	
Alea	Ability (10K tons)	5 in US	Shell	BP	Total of '
Capitalism Countries	78,490	37.9	13.4	5.8	57.1
US	40,190	38.7	6.3	_	45.0
Outside US	38,300	37.0	20.8	11.9	69.7
West Europe	12,600	22.8	24.9	16.4	64.1
Under Develop Countries	20,080	42.9	20.7	10.7	74.3
Venezuela	2,720	58.9	34.0	_	92.9
Middle & Near East	6,245	47.9	10.2	33.5	91.6

Ow	vnership of	Middle Eas in 1970	t Joint-Ve	ntures
	Arabian American Oil Co.	Kuwait Petroleum Company	Iran Allied	Iraq Nationa Oil Company
Exxon	30		7	11.875
Caltex	30		7	
Gulf		50	7	
Chevron	30		7	
Mobil	10		7	11.875
Royal Dutch / Shell			14	23.75
BP		50	40	23.75
CFP (Total)			6	23.75
Others			5	5

Incre	asing Dem by Inter		w Oil Price il Compan	0.
	19	960	19	70
	Consumption	% of Energy Consumption	Consumption	% of Energy Consumptio
France	556	31	1,888	62
Italy	444	52	1,834	75
U.K.	941	22	2,087	41
Germany	626	21	2,433	51
Europe	3,846	29	12,450	56
Japan	664	34	3,846	67
Canada	841	53	1,525	52
U.S.	9,688	43	14,350	42

	Internationa of Partial		ariation Con ties in 1948	*
	Crude Oil (US\$ / Barrel)	Brass (US Cent /Pound)	Tin (US\$/Pound)	Export Price Index of Products from Industrial Countries (1970 = 100)
1948	2.17	22.20	99.25	69(Index of 1950
1949	1.75(July)	19.36	99.32	
1960	1.80(August)	32.05	101.30	
1973	3.01(October)	58.87	229.20	133
% Increased in 1973 compare with 1948	38.7	165.2	130.9	92.7



	Index Comparison of Oil with Equipment Export Price from Countries (1975 =	n Major Western
	Index of M&E, Transport Equipment Export Price in Major Western Countries	Index of OPEC Standard Oil Pric
1971	67	16
1972	71	18
1973	81	29
1974	90	91
1975	100	100
1976	103	107
1977	112	117.5
1978	129	118
1979	138	185



	Production (omparison to	1	1 0
Production Cost (US\$/Barrel)	Production Capacity (Mil. Barrel/Day)	1986 & Earlier (Mil. Barrel/Day)	Production Place
< US\$ 2	15	8	Middle East
US\$ 2- 4	15	12	Middle East, Africa Mexico, Indonesia, Part of North Sea
US\$ 4 - 12	22	22	Most Parts of US, North Sea, Canada
US\$ 12 - 24	4	3	US, Exposed Well, Oil-sand in Canada, North Pole, Offshore









Proporti	ion beyond Quot (1984~		"s Oil Outpu
Year	Proportion (%)	Year	Proportion (%
1984	0.7	1993	2.9
1985	0.8	1994	1.5
1986	11.2	1995	1.5
1987	9.6	1996	3.8
1988	18.3	1997	7.6
1989	16.0	1998	4.5
1990	4.8	1999	1.5
1991	3.3	2000	1.2
1992	4.1		

	2005 Top-8 Co (100 mil. to		n Output
Po.	Company	State-owned Proportion%	Crude-Oil Reservation	World Reservation Proportion %
1	Saudi Arabian Oil	100	369.9	22.49
2	National Iranian Oil	100	192.5	11.70
3	Iraq National Oil	100	161.0	9.79
4	Kuwait National Petroleum	100	142.1	8.64
5	Petroleos de Venezuela SA	100	111.6	6.78
6	Abu Dhabi National Oil	100	79.7	4.84
7	National Oil Co. (Libva)	100	46.5	2.83
8	Nigerian National Oil	100	30.2	1.84
	Total		1,133.5	68.90

	2005 Top-8 Com	panies in (mil. tons)		il Produc
Po.	Company	State-owned Proportion%	Crude Oil Output	World Outpu Proportion %
1	Saudi Arabian Oil Company	100	55175	14.17
2	National Iranian Oil Company	100	20245	5.20
3	Petroleos Mexicanos	100	18550	4.76
4	Petroleos de Venezuela SA	100	13250	3.40
5	Kuwait National Petroleum	100	13215	3.39
6	BP		12810	3.29
7	Exxon Mobil		12615	3.24
8	PetroChina	90	11350	2.91
	Total		157210	40.36











