

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Oil, gas, & coal extraction data													
2														
3	<div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 5px; background-color: #e0ffe0;"> <p style="text-align: center;">Richard Heede Climate Mitigation Services File started: April 2013 Last modified: May 2013</p> </div> <div style="border: 1px solid black; padding: 5px; background-color: #ffe0e0; color: white; text-align: center;"> <p>Copyright Climate Mitigation Services</p> </div> </div>													
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9	Sinopec, China Petrochemical Corporation										yellow column indicates original reported units	75.84 percent state-owned		
10	english.sinopec.com/ Beijing													
11	Production / Extraction data													
12	Year	Crude Oil & NGL			Natural Gas			Background data						
13		Net production	Net production	Net production	Net production	Net production	Net production							
14		Thousand bbl /d	Million bbl /yr	Million bbl /yr	Million cf/d	Million SCM/d	Billion cf/yr							
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Operations Performance Highlights (2004-2007; not all years or data reported)	
Upstream: Average Proved Oil Reserves (MM Barrels)	3,285
Upstream: Average Proved Gas Reserves (BCF)	2,947
Upstream: Average Annual Oil Production (MM Barrels)	279
Upstream: Average Annual Natural Gas Production (BCF)	229
Downstream: Average Annual Refinery Production (MM Barrels)	876
Financial Performance Highlights (2004-2007; not all years or data reported)	
Consolidated Average Total Revenues (\$Millions)	103,314
Consolidated Average Total Assets (\$Millions)	66,116
Consolidated Average EBIT (\$Millions)	11,375
Consolidated Average Net Income (\$Millions)	5,807

World Bank (2008b) A Citizen's Guide to National Oil Companies, Part B: Data Directory, page 58.

Output of Oil & Gas at Home					
	2011	2010	2009	2008	2007
Crude oil (million tons)	42.73	42.56	42.42	41.80	41.08
Natural gas (billion m ³)	14.64	12.50	8.47	8.30	8.00

Sinopec AnnRpt 2011, page 9.
Plus international equity production (2011): 22.07 million tons crude oil, 994 million m³ natgas

Sinopec established in July 1998

	OGJ100		OGJ100	
Sinopec AnnRpts (see page 2)	241.5	241	78.6	79
	247.4	247	80.3	80
	269.2	269	162.8	163
	269.8	270	178.8	179
	271.0	271	187.7	188
	274.2	274	207.0	207
	278.8	279	221.9	222
	285.2	285	256.5	257
	291.7	292	282.6	283
	332.0	332	293.1	293
	327.6	328	299.0	299
	327.9	328	441.4	441

Total	na	3,416	3,416	na	2,690	2,690
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Sinopec AnnRpt 2011 p. 13.



Sinopec AnnRpt 2011 p. 13.

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Operation Summary of Exploration and Production Segment

	2010	2009	2008	Change from 2009 to 2010 (%)
Crude oil production (mmbbls)	327.85	327.62	322.02	0.1
Including: China	302.18	301.15	296.80	0.3
Africa	25.67	26.47	25.22	(3.0)
Natural gas production (bcf)	441.39	299.01	293.07	47.6
Total oil and gas production (mmboe)	401.42	377.45	370.87	6.4

	As at 31 December, 2010	As at 31 December, 2009	As at 31 December, 2008	Changes at the year end of the report period compared with the end of the last year (%)
Proved reserve of crude oil (mmbbls)	2,888	2,920	2,961	(1.1)
Proved reserve of natural gas (bcf)	6,447	6,739	6,959	(4.3)
Proved reserve of crude oil and natural gas (mmboe)	3,963	4,043	4,121	(2.0)

Note: 1. Inclusive of 100% of production and reserve of SSI.
2. For crude oil produced in China, 1 tonne=7.1 barrels; for natural gas, 1 cubic meter=35.31 cubic feet; for crude oil produced in Africa, 1 tonne=7.27 barrels.

Sinopec Annual Report 2010, page 13.

Summary of Operations of the Exploration and Production Segment

	2007	2006	2005	Change from 2006 to 2007 (%)
Crude oil production (mmbbls)	291.67	285.19	278.82	2.3
Natural gas production (bcf)	282.6	256.5	221.9	10.2
Newly added proved reserves of crude oil (mmbbls)	21	286	306	(92.7)
Newly added proved reserves of natural gas (bcf)	3,756.7	161.5	140.6	2,226.1
Year-end proved reserves of crude oil (mmbbls)	3,024	3,295	3,294	(8.2)
Year-end proved reserves of natural gas (bcf)	6,330.8	2,856.7	2,951.7	121.6
Year-end proved reserves of crude oil and natural gas (mmboe)	4,079	3,771	3,786	8.2

Sinopec Annual Report 2007, page 15.

Summary of Operations of the Exploration and Production Segment

	2004	2003	2002	Changes from 2003 to 2004 (%)
Crude oil production (mmbbls)	274.15	270.96	269.80	1.18
Natural gas production (bcf)	207.0	187.7	178.8	10.29
Newly added proved reserves of crude oil (mmbbls)	284	208	375	36.54
Newly added proved reserves of natural gas (bcf)	352.0	(254.3)	20.2	N/A
Year end proved reserves of crude oil (mmbbls)	3,267	3,257	3,320	0.31
Year end proved reserves of natural gas (bcf)	3,033.0	2,887.6	3,329.4	5.04
Year end proved reserves of crude oil and natural gas (mmboe)	3,773	3,738	3,875	0.94

Summary of Production and Operations of Shengli Oil Field

	2004	2003	2002	Changes from 2003 to 2004 (%)
Crude oil production (mmbbls)	189.88	189.25	189.68	0.33
Natural gas production (bcf)	31.8	28.6	26.5	11.19
Newly added proved reserves of crude oil (mmbbls)	225	196	240	14.80
Newly added proved reserves of natural gas (bcf)	79.9	70.1	(5.1)	13.98
Year end proved reserves of crude oil (mmbbls)	2,306	2,271	2,264	1.54
Year end proved reserves of natural gas (bcf)	357.1	308.9	267.4	15.60
Year end proved reserves of crude oil and natural gas (mmboe)	2,366	2,322	2,308	1.89

Sinopec Annual Report and Accounts, 2004, China Petroleum and Chemical Corporation, page 20.

Production Summary of the Refining Segment

	2010	2009	2008	Change from 2009 to 2010 (%)
Refinery throughput (million tonnes)	211.13	186.58	175.73	13.2
Gasoline, diesel and kerosene production (million tonnes)	124.38	113.69	107.36	9.4
Including: Gasoline (million tonnes)	35.87	34.43	29.65	4.2
Diesel (million tonnes)	76.09	68.86	69.74	10.5
Kerosene (million tonnes)	12.42	10.39	7.99	19.5
Light chemical feedstock (million tonnes)	35.00	26.87	23.12	30.3
Light products yield (%)	75.79	75.54	74.75	Up by 0.25 percentage point
Refining yield (%)	94.83	94.53	94.05	Up by 0.30 percentage point

Note: 1. Refinery throughput includes natural gas condensates and heavy oil throughput. The data of 2008 and 2009 were adjusted retrospectively. For unit conversion of refinery throughput, 1 tonne=7.35 barrels.
2. The operation data include 100% of the production of the joint venture.

Sinopec Annual Report 2010, page 14.

Production Summary of Major Chemical Products

	2010	2009	2008	Change from 2009 to 2010 (%)
Ethylene	9,059	6,713	6,289	34.9
Synthetic resin	12,949	10,287	9,643	25.9
Synthetic rubber	967	884	834	9.4
Synthetic fiber monomers and polymers	8,864	7,798	7,264	13.7
Synthetic fiber	1,393	1,302	1,260	7.0
Urea	1,223	1,752	1,649	(30.2)

Note: 100% production of joint ventures was included.

Sinopec Annual Report 2010, page 15.

Summary of Operations of the Exploration and Production Segment

	2000	1999	% change in 2001 compared to 2000	
	(Sinopec National Star excluded)	(Sinopec National Star excluded)		
Crude oil production (mmbbls)	269.16	247.35	241.45	8.8
Natural gas production (bcf)	162.8	80.3	78.6	103
Newly added proved crude oil reserves (mmbbls)	316	318	443	-0.6
Newly added proved gas reserves (bcf)	309	297.0	284.0	4.0
Year end proved reserves of crude oil (mmbbls)	3,215	2,952	2,881	8.9
Year end proved reserves of natural gas (bcf)	3,488	999.0	782.0	249.2
Year end proved reserves of oil and gas (mmboe)	3,796	3,118	3,011	21.7

Sinopec Annual Report and Accounts, 2001, China Petroleum and Chemical Corp., p. 19.

Sources of Crude Oil Processed by the Company

	2010	2009	2008	Change from 2009 to 2010 (%)
Company produced crude oil in China	35.13	35.22	34.57	(0.3)
PetroChina	5.10	7.05	6.13	(27.7)
CNOOC LIMITED	6.91	6.49	9.04	6.5
Import	165.00	138.82	128.38	18.9
Total	212.14	187.58	178.13	13.1

Sinopec Annual Report 2010, page 13.

Sinopec Shengli Oilfield

More Efforts in R&D to Fight Against Climate Change
www.sinopecgroup.com/english/socialresponsibility/safegreen/Isafe/Pages/default.aspx
Low-Carbon Lifestyle

Cell: J9**Comment:** Rick Heede:

China Petrochemical Corporation (Sinopec Group) is a super-large petroleum and petrochemical enterprise group established in July 1998 on the basis of the former China Petrochemical Corporation. Sinopec Group is a state-owned company solely invested by the State, functioning as a state-authorized investment organization in which the state holds the controlling share. Headquartered in Beijing, Sinopec Group has a registered capital of RMB 182 billion.

Sinopec Group executes the investor rights over related state assets owned by its full subsidiaries, controlled companies and share-holding companies. These rights include receiving returns on assets, making major decisions and appointing management teams. The Group operates, manages and supervises state assets according to related laws, and shoulders the corresponding responsibility of maintaining and increasing the value of state assets. China Petroleum & Chemical Company (Sinopec Corp.), controlled by Sinopec Group, issued H-shares and A-shares at overseas and home respectively in October 2000 and August 2001 and was listed on stock markets in Hong Kong, New York, London and Shanghai. The total number of shares of Sinopec Corp. was 86.7 billion, in which Sinopec Group owns 75.84%, international investors own 19.35% and domestic investors own 4.81%.

Sinopec Group's key business activities include: industrial investment and investment management; the exploration, production, storage and transportation (including pipeline transportation), marketing and comprehensive utilization of oil and natural gas; oil refining; the wholesale of gasoline, kerosene and diesel; the production, marketing, storage, transportation of petrochemicals and other chemical products; the design, construction and installation of petroleum and petrochemical engineering projects; the overhaul and maintenance of petroleum and petrochemical equipments; the manufacturing of electrical and mechanical equipments; the research, development, application and consulting services of technology, information and alternative energy products, the import and export of commodities and technologies both for the Group and as a proxy (with the exception of those commodities and technologies that are either banned by the State or to be carried out by the state-designated companies).

Sinopec Group ranked the 5th in Fortune Global 500 in 2011.

Source: About Sinopec, www.sinopecgroup.com/english/Pages/guanyu_gsjs.aspx

Cell: M9**Comment:** Rick Heede:

World Bank, 2008, page 57: Sinopec is a joint stock company incorporated in the PRC. It is a subsidiary of Sinopec Group Company (SGC). The government owns 100% of SGC share capital, which owns 75.84% of Sinopec. 23.49% of the share capital is traded on 4 stock exchanges, while the residual 0.67% is owned by a state-owned security entity.

World Bank (2008b) A Citizen's Guide to National Oil Companies, Part B: Data Directory, World Bank, Washington, & Center for Energy Economics, Bureau of Economic Geology Jackson School of Geosciences University of Texas, Austin, 764 pp.

Cell: E63**Comment:** Rick Heede:

No data on Sinopec (or China Petroleum & Chemical Corp) for 1988-1998.

Cell: I63**Comment:** Rick Heede:

No data on Sinopec (or China Petroleum & Chemical Corp) for 1988-1998.

Cell: D98**Comment:** Rick Heede:

Sinopec Annual Report 2010, page 13.

english.sinopec.com/download_center/reports/2010/20110328/download/2010AnnualReport.pdf

Cell: J161**Comment:** Rick Heede:

Produced more than One Billion Tons of Oil in 50 Years Shengli Oilfield is the largest oilfield of our company and also China's second largest oilfield. In 29 consecutive years from 1983 to 2011, Shengli Oilfield achieved more than 100 million tons of new verified geological oil reserves per year and 5.19 billion tons of accumulative verified geological oil reserves in the half century from 1961 to 2011. From 1996 to 2011, the Oilfield achieved an annual crude oil production of more than 27 million tons for 16 consecutive years and produced 1.02 billion tons of crude oil in total, accounting for 1/5 of China's total crude oil production in the same period.

Sinopec AnnRpt 2011, page 11.

Cell: J164**Comment:** Rick Heede:

"Our objective is to enhance our ability of low-carbon growth by reinforcing our mid-term and long-term strategic low-carbon technology preparation. We plan to focus on R&D of technologies that help with energy saving and efficiency improvement, development of renewable and alternative energy sources, emission control, treatment and utilization of GHG like CO₂ and CH₄, biological and engineering carbon sequestration, clean and efficient development and utilization of coal, oil and natural gas, CO₂ capturing and sequestration, CO₂ flooding, comprehensive utilization of high purity CO₂ and fuel production via microalgal CO₂ fixation."

Sinopec.com / Social responsibility.

Cell: J166**Comment:** Rick Heede:

"To preserve and ameliorate the environment is regarded by Sinopec as an important social responsibility and a major way to improve production and living conditions for employees. Aiming to build up a garden-like energy company, we motivate our staff to take part in activities for public good like national mandatory tree-planting campaign. In 2011, 520,000 person times in Sinopec took part in the campaign, planted 1.56 million trees, and thus 90% of our tree-planting obligations fulfilled.

We spread information about climate change among employees, consumers, suppliers, contractors and other stakeholders, calling for changes in mode of production, way of life and habit of consumption, and for stronger sense of social responsibility and keener awareness to protect the environment."

We only purchase materials and equipments in conformity with green, energy-saving and low-carbon standards. In this way, we are trying to lead our suppliers and contractors on the right track of green and low-carbon growth.

Cell: M166**Comment:** Rick Heede:

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