



中国石化
SINOPEC

中 国 石 油 化 工 股 份 有 限 公 司

CHINA PETROLEUM & CHEMICAL CORPORATION

(在中華人民共和國註冊成立的股份有限公司)

(證券代號 : 00386)

2021 5

2020

2020

59				
1997	1			
1998	7			
		1998	2	
				1999
				3
			1999	6
			2002	1
		2003	8	
		2008	12	
2009	7		2014	5
7		2017	3	
			2018	5
				2017
		2020	1	
2020	3			

The figure displays a network graph with three main clusters of nodes, each representing a different set of years. The nodes are arranged in a grid-like structure, with some nodes having multiple outgoing connections to other nodes in the same or adjacent rows.

- Top Cluster (Years 1995-2013):**
 - 1995 (58) connects to 1999 (7), 2002 (3), 2007 (6), 2013 (8), 2014 (5), 2019 (12), and 2020 (5).
 - 1999 (7) connects to 2002 (3).
 - 2002 (3) connects to 2007 (6).
 - 2007 (6) connects to 2013 (7).
 - 2013 (7) connects to 2013 (8).
 - 2013 (8) connects to 2014 (5).
 - 2014 (5) connects to 2019 (12).
 - 2019 (12) connects to 2020 (5).
- Middle Cluster (Years 1983-2018):**
 - 1983 (58) connects to 2000 (2).
 - 2000 (2) connects to 2010 (7).
 - 2010 (7) connects to 2013 (8).
 - 2013 (8) connects to 2017 (3).
 - 2017 (3) connects to 2018 (2).
 - 2018 (2) connects to 2018 (5).
 - 2018 (5) connects to 2012 (5).
 - 2012 (5) connects to 2019 (4).
- Bottom Cluster (Years 2003-2020):**
 - 2003 (58) connects to 2009 (7).
 - 2009 (7) connects to 2016 (12).
 - 2016 (12) connects to 2015 (3).
 - 2015 (3) connects to 2019 (10).
 - 2019 (10) connects to 2020 (7).
 - 2020 (7) connects to 2020 (11).
 - 2020 (11) connects to 2005 (9).
 - 2005 (9) connects to 2007 (11).

53										1997
2005										
		2005								
					2010	12		2017	1	
2017	6									
					2018	5				
60										
FCPA										
FCA										
1984		1984		1999						
1984					1996					
2015	10		2016	3				2000	6	
									2015	9
					2018	5				
59										
1993	10									
					2010	8				
					2013	11				
2017	11									
					2019	3				

66	1982	1993			
George Mason University			1977	4	4

3.14

XV

2020
2020

45

13.51 2 h v

			2008	12
49				
	2017	7		
	2017	12		
			2020	7
	2020	9		
56			1998	12
	2000	2	2001	12
2005	11			
			2006	3
			2010	4
			2014	11
			2017	5
			2018	12
	2019	12		
2010	12		2018	5

58		2009	9
2018	12	2015	3

55		2010	4
2017	1	2017	4
;	2020	2017	7
10			

49		2008	8
2009	8		
2018	9		
2020	4		

55		2013	7
2018	3		
2018	12		
		2019	7
		2020	4

2020

2020

13.51 2 h v

2021 3 26

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