

Annexes

PEMEX Main Statistics of Production

	Second quarter (Apr.-Jun.)				Six months ending Jun. 30,			
	2018	2019	Change		2018	2019	Change	
Upstream								
Total hydrocarbons (Mboed)	2,545	2,372	-6.8%	(173)	2,573	2,376	-7.6%	(197)
Crude oil and condensates ⁽¹⁾ (Mbd)	1,869	1,690	-9.6%	(183)	1,884	1,690	-10.4%	(199)
PEMEX's production	1,850	1,661	-10.2%	(189)	1,866	1,661	-11.0%	-205
Business Partners' production	19	29	51.3%	10	18	29	62.8%	11
Natural gas (MMcfd) ⁽²⁾	4,845	4,833	-0.2%	(12)	4,823	4,811	-0.3%	(12)
PEMEX's production	4,794	4,762	-0.7%	(32)	4,787	4,742	-0.9%	(45)
Business Partners' production	52	72	38.9%	20	37	69	89.3%	33
Downstream								
Dry gas from plants (MMcfd) ⁽³⁾	2,451	2,218	-9.5%	(233)	2,457	2,266	-7.8%	-191
Natural gas liquids (Mbd)	250	223	-11.0%	(28)	252	223	-11.4%	-29
Petroleum products (Mbd) ⁽⁴⁾	740	631	-14.7%	(109)	671	595	0	-76
Petrochemical products (Mt)	750	642	-14.4%	(108)	1,340	1,277	0	-63

(1) Condensates produced in fields

(2) Includes nitrogen.

(3) Does not include dry gas used as fuel.

(4) Includes LPG

PEMEX Crude Oil Production by Type

	Second quarter (Apr.-Jun.)				Six months ending Jun. 30,			
	2018	2019	Change		2018	2019	Change	
Crude oil (Mbd)	1,850	1,661	-10.2%	(189)	1,845	1,641	-11.0%	(205)
Heavy	1,068	1,047	-2.0%	(21)	1,066	1,038	-2.7%	(28)
Light	553	454	-17.9%	(99)	564	464	-17.7%	(100)
Extra-light	209	140	-32.9%	(69)	215	139	-35.2%	(76)
Condensates	20	20	0.1%	0	21	20	-5.9%	(1)
Offshore crude oil / total	82.9%	82.4%			82.8%	82.4%		

PEMEX
Crude Oil Production by Block

	2015	2016	2017				2018				2019	
			<u>1Q</u>	<u>2Q</u>	<u>3Q</u>	<u>4Q</u>	<u>1Q</u>	<u>2Q</u>	<u>3Q</u>	<u>4Q</u>	<u>1Q</u>	<u>2Q</u>
	(Mbd)											
Total	2,267	2,154	2,018	2,013	1,884	1,881	1,883	1,850	1,806	1,711	1,661	1,661
Shallow Waters Blocks AS01												
Production Subdirection	1,126	1,082	1,059	1,061	991	1,028	1,029	1,034	1,034	1,005	984	992
Block AS01-01	273	216	195	188	160	164	153	150	150	149	145	144
Block AS01-02	853	867	864	874	831	864	876	884	883	856	839	847
Shallow Waters Blocks AS02												
Production Subdirection	634	619	570	577	533	516	523	499	468	411	384	375
Block AS02-03	287	259	214	214	200	186	188	181	182	185	184	187
Block AS02-04	347	360	356	363	334	330	335	318	286	226	199	188
South-Block Production												
Subdirection	394	344	285	276	263	243	234	219	216	209	207	204
Block S01	59	47	34	33	30	28	26	23	22	23	25	24
Block S02	145	127	105	102	99	93	91	86	85	83	81	80
Block S03	102	90	79	75	72	65	64	59	57	54	57	57
Block S04	88	80	67	66	63	57	53	51	51	48	44	43
North-Block Production												
Subdirection	113	109	104	99	97	93	96	98	89	86	87	90
Block N01	N/D	0	0	0	0	0	3	2	2	3	3	3
Block N02	101	94	89	84	81	77	77	78	69	65	64	65
Block N03	12	15	15	15	16	16	16	17	19	19	19	22

As of November 2017, the new PEP structure is reported with the SIIP information source.

The Aceite Terciario del Golfo Integral Asset is incorporated into the Poza Rica-Altamira Asset and is currently Block N02.

PEMEX
Natural Gas Production and Gas Flaring

	Second quarter (Apr.-Jun.)				Six months ending Jun. 30,			
	<u>2018</u>	<u>2019</u>	<u>Change</u>		<u>2018</u>	<u>2019</u>	<u>Change</u>	
Total (MMcfd)⁽¹⁾	3,864	3,634	-6.0%	(230)	3,900	3,649	-6.4%	(251)
Associated	2,828	2,720	-3.9%	(109)	2,832	2,726	-3.8%	(107)
Non-associated	1,035	914	-11.7%	(121)	1,068	924	-13.5%	(144)
Natural gas flaring (MMcfc)	160	261	63.3%	101	156	252	61.4%	96
Gas flaring / total ⁽²⁾	3.3%	5.5%	64.4%	0	3.2%	5.2%	61.9%	0

(1) Does not include nitrogen. Does not include production from business partners nor Mexican State.

(2) Beginning 2016, the calculation of the natural gas use as a percentage of production will be based on total natural gas, including nitrogen.

PEMEX
Natural Gas Production by Block ⁽¹⁾

	2015	2016	2017				2018				2019	
			1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q
	(MMcfd)											
Total ⁽²⁾	6,401	5,792	5,337	5,295	4,857	4,791	4,780	4,794	4,839	4,789	4,722	4,762
Shallow Waters Blocks AS01 Production Subdirection	1,834	1,774	1,832	1,828	1,514	1,574	1,654	1,807	1,949	1,958	1,925	2,014
Block AS01-01	1,277	1,185	1,255	1,266	1,002	1,015	1,048	1,133	1,197	1,216	1,185	1,257
Block AS01-02	557	589	577	561	512	559	606	674	752	742	740	757
Shallow Waters Blocks AS02 Production Subdirection	1,449	1,340	1,222	1,242	1,190	1,154	1,138	1,086	1,071	1,050	1,025	1,032
Block AS02-03	456	391	336	337	311	295	297	284	283	288	285	303
Block AS02-04	994	950	886	906	878	860	841	802	788	762	739	729
South-Block Production Subdirection	1,380	1,250	1,069	1,041	999	937	917	876	854	827	841	799
Block S01	455	382	305	301	289	273	260	248	248	241	256	243
Block S02	500	499	452	442	422	392	399	389	373	363	360	363
Block S03	265	231	197	185	181	170	163	147	143	136	141	123
Block S04	160	138	115	112	107	102	95	91	90	87	83	70
North-Block Production Subdirection	1,738	1,428	1,214	1,184	1,154	1,126	1,071	1,025	965	954	931	917
Block N01	1,099	865	699	700	701	697	658	611	577	569	564	555
Block N02	247	240	226	208	200	193	190	190	177	173	155	152
Block N03	392	323	289	276	253	236	222	224	211	212	212	210
Memorandum												
Nitrogen	897	926	970	959	766	760	843	930	1,024	1,043	1,057	1,128
 South-Block Production Subdirection	120	122	106	106	104	95	117	131	128	120	98	88
Block S01	N/D	N/D	N/D	N/D	N/D	N/D	10	20	19	18	N/D	N/D
Block S02	82	91	87	89	87	78	89	101	99	93	80	73
Block S03	38	31	19	17	17	16	19	10	10	9	17	15
Shallow Waters Blocks AS01 Production Subdirection	777	804	864	853	662	665	726	799	896	923	959	1,040
Block AS01-01	664	681	672	687	537	530	554	621	665	669	675	721
Block AS01-02	113	123	192	166	125	136	172	177	232	254	284	319

(1) As of November 2017, the new PEP structure is reported with the SIIP information source.

(2) Includes nitrogen

PEMEX
Seismic Information

	Second quarter (Apr.-Jun.)			Six months ending Jun. 30,		
	<u>2018</u>	<u>2019</u>	<u>Change</u>	<u>2018</u>	<u>2019</u>	<u>Change</u>
2D (km)	-	-	-	-	-	-
3D (km ²)	861	-	(861)	1,064	-	(1,064)

PEMEX
Drilled and Operating Wells

	Second quarter (Apr.-Jun.)				Six months ending Jun. 30,			
	<u>2018</u>	<u>2019</u>	<u>Change</u>		<u>2018</u>	<u>2019</u>	<u>Change</u>	
Wells drilled	36	46	27.8%	10	76	88	15.8%	12
Development	31	43	38.7%	12	69	81	17.4%	12
Exploration	5	3	-40.0%	(2)	7	7	0.0%	-
Operating wells	7,697	7,302	-5.1%	(395)	7,779	7,362	-5.4%	(417)
Crude oil	4,884	4,610	-5.6%	(274)	4,898	4,669	-4.7%	(229)
Non-associated gas	2,813	2,692	-4.3%	(121)	2,880	2,692	-6.5%	(188)

PEMEX
Average Operating Drilling Rigs

	Second quarter (Apr.-Jun.)				Six months ending Jun. 30,			
	<u>2018</u>	<u>2019</u>	<u>Change</u>		<u>2018</u>	<u>2019</u>	<u>Change</u>	
Total	37	49	32.5%	12	36	45	26.7%	10
Exploration	12	13	8.5%	1	12	11	-9.9%	(1)
Development	25	36	43.6%	11	23	34	46.2%	11

PEMEX
Crude Oil Processing

	Second quarter (Apr.-Jun.)				Six months ending Jun. 30,			
	2018	2019	Change		2018	2019	Change	
Total processed (Mbd)	704	595	-15.6%	(110)	652	577	-11.5%	(75)
Light crude	446	331	-25.8%	(115)	421	307	-27.0%	(113)
Heavy crude	259	264	2.1%	5	231	270	16.7%	39
Light crude / Total processed	63.3%	55.6%	-12.1%	(7.7)	64.6%	53.3%	-17.5%	(11.3)
Heavy crude / Total processed	36.7%	44.4%	20.9%	7.7	35.4%	46.7%	31.9%	11.3
Use of primary distillation capacity	43.0%	36.3%	-15.6%	(6.7)	39.7%	35.2%	-11.5%	(4.6)

PEMEX
Petroleum Products Production

	Second quarter (Apr.-Jun.)				Six months ending Jun. 30,			
	2018	2019	Change		2018	2019	Change	
Total production (Mbd) ⁽¹⁾	740	631	-14.7%	(109)	671	595	-11.3%	(76)
Automotive gasolines	235	191	-18.8%	(44)	212	184	-13.5%	(29)
Fuel oil	224	159	-28.9%	(65)	201	150	-25.2%	(50)
Diesel	144	141	-1.9%	(3)	129	130	1.2%	1
LPG ⁽²⁾	12	8	-33.5%	(4)	12	8	-33.5%	(4)
Jet Fuel	35	28	-20.3%	(7)	36	27	-24.4%	(9)
Other ⁽³⁾	91	104	14.8%	13	82	96	17.2%	14

(1) Includes petrochemicals

(2) Includes transfers

(3) Includes dry gas, pet coke, asphalts, light cycle oil, lubricants and paraffins.

Note: As of June 30, 2019 PEMEX had 9,161 service stations.

PEMEX
Natural Gas Processing and Production

	Second quarter (Apr.-Jun.)				Six months ending Jun. 30,			
	<u>2018</u>	<u>2019</u>	<u>Change</u>		<u>2018</u>	<u>2019</u>	<u>Change</u>	
Natural gas processing (MMcfd)	2,995	2,753	-8.1%	(242)	3,013	2,767	-8.2%	(246)
Sour wet gas	2,541	2,336	-8.1%	(205)	2,539	2,348	-7.5%	(191)
Sweet wet gas	454	417	-8.2%	(37)	474	419	-11.6%	(55)
Condensates processing (Mbd)	30.4	25.5	-16.3%	(5.0)	31.3	24.9	-20.3%	(6.4)
Production								
Dry gas from plants (MMcfd)	2,451	2,218	-9.5%	(233)	2,457	2,266	-7.8%	(191)
Natural gas liquids (Mbd)	250	223	-11.0%	(28)	252	223	-11.4%	(29)

PEMEX
Production of Petrochemicals

	Second quarter (Apr.-Jun.)				Six months ending Jun. 30,			
	<u>2018</u>	<u>2019</u>	<u>Change</u>		<u>2018</u>	<u>2019</u>	<u>Change</u>	
Total production	750	642	-14.4%	(108)	1,340	1,277	-4.7%	(63)
Methane derivatives	182	45	-75.4%	(138)	331	100	-70.0%	(232)
Ammonia	54	N/D		0	118	N/D	0.0%	0
Carbon dioxide	83	14	-83.7%	(69)	133	26	-80.5%	(107)
Methanol	45	31	-31.0%	(14.1)	80	74	-8.3%	(7)
Ethane derivatives	161	143	-11.0%	(18)	307	292	-5.0%	(15)
Ethylene glycol	29	29	-0.4%	(0)	64	49	-22.4%	(14)
Impure glycol	0.8	0.6	-28.6%	(0.2)	1	1	-20.8%	(0)
Pure monoethylene glycol	2	2	5.8%	0	4	4	3.0%	0
Ethylene oxide	35	32	-8.8%	(3)	67	64	-4.1%	(3)
High density polyethylene	10	4	-57.3%	(6)	15	14	-2.6%	(0)
Low density polyethylene	30	30	2.2%	1	65	56	-14.4%	(9)
Linear low density polyethylene	54	45	-16.8%	(9)	92	103	12.5%	12
Aromatics and derivatives	118	214	80.9%	96	147	401	173.7%	255
Aromine 100	2	2	21.3%	0.4	3	5	49.2%	1
Benzene	0.2	15.2	7136.0%	15.0	0.3	26.6	7499.1%	26
High octane hydrocarbon	92	165	79.8%	73	117	300	157.1%	183
Toluene	12	16	37.3%	4	12	37	223.8%	26
Xylenes	13	15	19.4%	2	15	33	118.2%	18
Propylene and derivatives	51	35	-32.9%	(17)	92	73	-20.3%	(19)
Propylene	51	35	-32.9%	(17)	92	73	-20.3%	(19)
Sulfur	124	92	-25.8%	(32)	247	186	-24.8%	(61)
Carbon black	62	53	-14.8%	(9)	133	109	-18.0%	(24)
Other	51	61	19.2%	10	84	118	40.6%	34
Hexane	3.0	2.6	-11.7%	(0)	3.1	4.4	39.3%	1
Pentanes	6	5	-15.2%	(1)	9	11	30.8%	3
Butane	11	10	-9.7%	(1)	21	20	-2.8%	(1)
Other	31	43	39.2%	12	51	82	59.6%	31

Note: "Other" includes Includes BTX liquids, butadiene, pyrolysis, heavy naphtha, hydrogen and isopropanol, among others.

PEMEX
Industrial Safety and Environmental Protection

	Second quarter (Apr.-Jun.)				Six months ending Jun. 30,			
	<u>2018</u>	<u>2019</u>	<u>Change</u>		<u>2018</u>	<u>2019</u>	<u>Change</u>	
Frequency index ⁽¹⁾	0.33	0.36	11.4%	0.04	0.23	0.26	14.9%	0.03
Severity index ⁽²⁾	11	18	63.2%	7	8	12	51.8%	4
Sulfur oxide emissions (Mt)	149	229	53.0%	79	285	451	58.5%	167
Reused water / Use	0.150	0.151	0.5%	0.001	0.152	0.145	-4.6%	(0.007)

(1) Number of lost-time injuries by MMmh risk exposure.

(2) Total days lost by MMmh risk exposure.

Note: MMmh stands for million man-hours.

PEMEX
Volume of Domestic Sales

	Second quarter (Apr.-Jun.)				Six months ending Jun. 30,			
	<u>2018</u>	<u>2019</u>	<u>Change</u>		<u>2018</u>	<u>2019</u>	<u>Change</u>	
Dry natural gas (MMcfd)	2,237	1,655	-26.0%	(582)	2,284	1,667	-27.0%	(617)
Petroleum products (Mbd)	1,520	1,424	-6.3%	(96)	1,514	1,401	-7.4%	(113)
Automotive gasolines	784	737	-6.1%	(47)	783	728	-7.0%	(55)
Fuel oil	115	126	10.3%	12	106	98	-7.2%	(8)
Diesel	348	309	-11.2%	(39)	340	307	-9.9%	(34)
LPG	158	136	-13.7%	(22)	169	153	-9.4%	(16)
Jet fuel	85	83	-2.8%	(2)	87	84	-3.1%	(3)
Other	30	32	8.1%	2	29	31	7.3%	2
Petrochemical products (Mt)	961	833	-13.3%	(128)	1,952	1,746	-10.5%	(206)

(1) Includes Pemex Petrochemicals, Pemex Fertilizers and Pemex Ethylene

PEMEX
Volume of Exports⁽¹⁾

	Second quarter (Apr.-Jun.)				Six months ending Jun. 30,			
	2018	2019	Change		2018	2019	Change	
Crude oil (Mbd)	1,199	1,076	-10.3%	(124)	1,219	1,150	-5.7%	(69)
Maya ⁽²⁾	1,139	1,076	-5.5%	(63)	1,157	1,150	-0.6%	(7)
Istmo	61	N/D	-	-	62	N/D	0.0%	-
Olmeca	-	-	-	-	-	-	0.0%	-
Dry natural gas (MMcfd)⁽³⁾	2	1	-16.7%	(0)	1	1	-1.3%	(0)
Petroleum products (Mbd)	160	102	-36.0%	(58)	153	109	-28.8%	(44)
Fuel oil	114	51	-55.2%	(63)	108	69	-36.5%	(39)
Naftas	41	35	-13.1%	(5)	41	33	-20.1%	(8)
Other	5	16	202.0%	11	5	8	71.9%	3
Petrochemical products (Mt)	13	13	2.2%	0	19	33	68.9%	13

(1) Transactions conducted by PMI Group.

(2) Includes Altamira.

(3) Transactions conducted by Pemex Industrial Transformation.

PEMEX
Volume of Imports⁽¹⁾

	Second quarter (Apr.-Jun.)				Six months ending Jun. 30,			
	2018	2019	Change		2018	2019	Change	
Dry natural gas (MMcfd)⁽²⁾	1,496	1,029	-31.2%	(467)	1,528	1,050	-31.3%	(478)
Petroleum products (Mbd)	936	878	-6.2%	(58)	964	891	-7.6%	(73)
Automotive gasolines	571	543	-4.9%	(28)	597	546	-8.5%	(51)
Fuel oil	24	23	-3.4%	(1)	15	16	11.9%	2
Diesel	231	191	-17.4%	(40)	235	196	-16.4%	(39)
LPG	49	49	-0.5%	(0)	59	57	-3.0%	(2)
Jet fuel	55	52	-5.6%	(3)	54	56	3.3%	2
Naftas	6	20	239.0%	14	4	19	324.9%	14
Other	0.50	0.51	0.7%	0.00	0.49	0.49	-0.4%	(0.00)
Petrochemical products (Mt)	194	182	-6.4%	(12)	417	398	-4.4%	(18)

(1) Transactions conducted by PMI Group.

(2) Transactions conducted by Pemex Industrial Transformation.

PEMEX
Financial Ratios

	Second quarter (Apr.-Jun.)			Six months ending Jun. 30,		
	<u>2018</u>	<u>2019</u>	<u>Change</u>	<u>2018</u>	<u>2019</u>	<u>Change</u>
Cost of sales / Total revenues	64.4%	76.1%	11.7	64.6%	74.8%	10.2
D&A / Operating costs & expenses	11.4%	10.4%	(1.1)	11.2%	11.2%	(0.0)
Operating income / Total revenues (including negative IEPS credit)	27.5%	14.0%	(13.5)	27.3%	15.5%	(11.8)
Taxes and duties / Total revenues (including negative IEPS credit)	26.7%	27.4%	0.7	27.0%	26.7%	(0.3)
Earnings before Interest, Taxes Depreciation and Amortization (EBITDA) / Interest expense	5.0	3.5	(1.5)	5.1	3.6	(1.4)
EBITDA / Total revenues	34%	29%	(5.2)	35%	30%	(4.4)

PEMEX
Sales and Services Revenues

	Second quarter (Apr.-Jun.)					Six months ending Jun. 30,				
	<u>2018</u>	<u>2019</u>	<u>Change</u>	<u>2019</u>	<u>2018</u>	<u>2019</u>	<u>Change</u>	<u>2019</u>		
	(MXN million)			(USD million)	(MXN million)			(USD million)		
Total revenues from sales and services	436,174	376,648	-13.6%	(59,526)	19,649	833,570	732,900	-12.1%	(100,670)	38,235
Domestic sales	254,251	217,573	-14.4%	(36,678)	11,351	492,040	416,531	-15.3%	(75,509)	21,730
Dry gas	11,032	5,458	-50.5%	(5,574)	285	27,368	15,946	-41.7%	(11,422)	832
Petroleum products	237,140	207,059	-12.7%	(30,081)	10,802	453,008	390,380	-13.8%	(62,628)	20,366
Gasolines	136,718	122,019	-10.8%	(14,699)	6,366	259,537	224,830	-13.4%	(34,708)	11,729
Fuel oil	11,225	9,803	-12.7%	(1,421)	511	19,319	16,149	-16.4%	(3,170)	842
Diesel	62,127	52,695	-15.2%	(9,432)	2,749	116,079	101,516	-12.5%	(14,563)	5,296
LPG	11,987	7,186	-40.1%	(4,801)	375	26,286	17,764	-32.4%	(8,521)	927
Jet fuel	14,152	14,297	1.0%	145	746	26,984	28,054	4.0%	1,070	1,464
Other ⁽¹⁾	932	1,059	13.6%	127	55	4,803	2,068	-56.9%	(2,735)	108
Petrochemical products ⁽²⁾	6,079	5,056	-16.8%	(1,023)	264	11,664	10,205	-12.5%	(1,459)	532
Exports	179,670	156,250	-13.0%	(23,420)	8,151	337,242	311,469	-7.6%	(25,773)	16,249
Crude oil and condensates	132,488	114,386	-13.7%	(18,102)	5,967	251,071	228,149	-9.1%	(22,922)	11,902
Dry gas	5	7	43.5%	2	0	10	10	-5.2%	(1)	0
Petroleum products	45,353	40,822	-10.0%	(4,531)	2,130	83,035	80,675	-2.8%	(2,361)	4,209
Petrochemical products	1,823	1,034	-43.3%	(789)	54	3,125	2,636	-15.7%	(490)	138
Suphur	-	-	-	-	-	-	-	-	-	-
Services revenues	2,254	2,826	25.4%	572	147	4,287	4,899	14.3%	612	256

(1) Includes propylene refining, asphalts, shrinkage, sulfur, hexane, solvent L and others.

(2) Includes Pemex Petrochemicals, Pemex Fertilizers, Pemex Ethylene and Pemex Fertinal

PEMEX
Operating Costs and Expenses

	Second quarter (Apr.-Jun.)					Six months ending Jun. 30,				
	2018	2019	Change	2019		2018	2019	Change	2019	
	(MXN million)			(USD million)		(MXN million)			(USD million)	
Operating costs and expenses	319,786	325,670	1.8%	5,885	16,990	614,015	625,266	1.8%	11,251	32,619
Cost of sales	280,882	286,519	2.0%	5,638	14,947	538,615	548,329	1.8%	9,714	28,606
Operating expenses	30,017	33,026	10.0%	3,009	1,723	59,257	65,538	10.6%	6,281	3,419
Purchases for resale	156,693	134,661	-14.1%	(22,032)	7,025	301,112	250,602	-16.8%	(50,510)	13,074
Hydrocarbon exploration taxes	353	341	-3.3%	(12)	18	688	682	-0.9%	(6)	36
Hydrocarbon exploration duties	256	268	4.5%	12	14	514	536	4.3%	22	28
Hydrocarbon extraction taxes	652	733	12.4%	81	38	1,356	1,433	5.6%	76	75
Hydrocarbon extraction duties	21,301	18,029	-15.4%	(3,273)	941	39,850	32,540	-18.3%	(7,310)	1,698
Other	71,609	99,462	38.9%	27,853	5,189	135,838	196,998	45.0%	61,161	10,277
Net cost for the period of employee benefits	7,545	7,927	5.1%	382	414	15,478	15,034	-2.9%	(444)	784
Depreciation and amortization expenses	38,857	33,188	-14.6%	(5,669)	1,731	72,869	68,297	-6.3%	(4,572)	3,563
Impairment of wells, pipelines, property, plant and equipment	(23,322)	4,443	19.1%	27,765	232	(42,360)	9,598	122.7%	51,958	501
Non-operating losses (deviated fuel)	9,135	863	-90.6%	(8,272)	45	16,902	2,741	-83.8%	(14,161)	143
Other concepts	39,394	53,041	34.6%	13,647	2,767	72,949	101,328	38.9%	28,380	5,286
Transportation and distribution expenses	5,551	5,541	-0.2%	(10)	289	11,074	11,043	-0.3%	(31)	576
Administrative expenses	33,353	33,610	0.8%	257	1,753	64,326	65,894	2.4%	1,568	3,438

Note: "Other" includes depreciation, amortizations, impairment, net cost for the period of employee benefits, preservation and maintenance, exploration expenses, non-successful wells, inventories variation, subsidiary entities consolidation net effect.

PEMEX
Interest expense & interest income

	Second quarter (Apr.-Jun.)					Six months ending Jun. 30,				
	2018	2019	Change	2019		2018	2019	Change	2019	
	(MXN million)			(USD million)		(MXN million)			(USD million)	
Total interest expense	(41,635)	(37,442)	10.1%	4,193	(1,953)	(78,176)	(78,565)	-0.5%	(388)	(4,099)
Interest expense	(29,804)	(31,443)	-5.5%	(1,639)	(1,640)	(56,973)	(61,298)	-7.6%	(4,325)	(3,198)
Income (cost) by financial derivative	(11,831)	(6,000)	49.3%	5,832	(313)	(21,203)	(17,267)	18.6%	3,936	(901)
Total interest income	(7,286)	12,419	270.4%	19,705	648	22,880	19,365	-15.4%	(3,515)	1,010
Interest income	1,850	3,177	71.8%	1,328	166	10,970	7,079	-35.5%	(3,891)	369
Income (cost) by financial derivative	(9,136)	9,241	201.2%	18,377	482	11,911	12,287	3.2%	376	641

PEMEX
Taxes and Duties

	Second quarter (Apr.-Jun.)					Six months ending Jun. 30,				
	2018	2019	Change	2019		2018	2019	Change	2019	
	(MXN million)			(USD million)		(MXN million)			(USD million)	
Total taxes and duties	116,334	103,165	-11.3%	(13,169)	5,382	225,196	195,609	-13.1%	(29,587)	10,205
Profit sharing duty	115,179	103,905	-9.8%	(11,275)	5,421	223,254	194,282	-13.0%	(28,972)	10,135
Income tax and others	1,155	(740)	-164.1%	(1,895)	(39)	1,943	1,328	-31.7%	(615)	69

PEMEX
Selected Indices

Pemex - Exploration and Production	As of June 30,			2019 (USD/boe)
	<u>2018</u>	<u>2019</u>	<u>Change</u>	
Total sales / Hydrocarbons production (MXN/boe)	959.0	876.5	(82.5)	45.7
Operating income / Hydrocarbons production (MXN/boe)	9.6	213.5	203.9	11.1
Net income / Hydrocarbons production (MXN/boe)	19.7	(181.5)	(201.2)	(9.5)
Taxes and duties / Operating income (%)	89.6%	209.0%	119.4	

PEMEX
Consolidated Balance Sheet

	As of December 31,	As of June 30,			
	<u>2018</u>	<u>2019</u>			
	(MXN million)		<u>Change</u>	<u>2019</u> (USD million)	
Total assets	2,075,197	2,021,266	-2.6%	(53,931)	105,447
Current assets	393,110	325,526	-17.2%	(67,584)	16,982
Cash and cash equivalents	81,912	44,419	-45.8%	(37,493)	2,317
Accounts, notes receivable and other	167,140	181,930	8.8%	14,790	9,491
Inventories	82,023	74,102	-9.7%	(7,921)	3,866
Short-term notes receivable	38,154	4,788	-87.5%	(33,366)	250
Available non-current assets kept for sale	1,254	321	-74.4%	(933)	17
Equity instruments	245	245	0.0%	0	13
Derivative financial instruments	22,382	19,721	-11.9%	(2,661)	1,029
Permanent investment in shares of associates	16,842	16,204	-3.8%	(638)	845
Property, plant and equipment	1,402,486	1,331,325	-5.1%	(71,161)	69,454
Deferred taxes	122,785	123,596	0.7%	811	6,448
Other assets	139,975	135,757	-3.0%	(4,218)	7,082
Right-of-use asset	-	88,859		88,859	4,636
Total liabilities	3,534,603	3,694,275	4.5%	159,672	192,726
Current liabilities	447,776	500,975	11.9%	53,199	26,135
Short-term financial debt	191,796	279,220	45.6%	87,424	14,567
Financial leasing	-	7,232		7,232	377
Suppliers	149,843	129,055	-13.9%	(20,788)	6,733
Accounts and accrued expenses payable	24,918	24,649	-1.1%	(269)	1,286
Derivative financial instruments	15,895	16,516	3.9%	621	862
Taxes and duties payable	65,325	44,303	-32.2%	(21,022)	2,311
Long-term liabilities	3,086,826	3,193,300	3.4%	106,473	166,591
Long-term financial debt	1,890,490	1,721,702	-8.9%	(168,789)	89,819
Financial leasing	-	92,139		92,139	4,807
Reserve for employee benefits	1,080,542	1,265,760	17.1%	185,218	66,033
Reserve for diverse credits	101,753	102,136	0.4%	383	5,328
Other liabilities	9,528	6,674	-30.0%	(2,855)	348
Deferred taxes	4,512	4,889	8.3%	377	255
Total equity	(1,459,405)	(1,673,009)	-14.6%	(213,603)	(87,279)
Holding	(1,459,883)	(1,673,379)	-14.6%	(213,496)	(87,298)
Certificates of contribution "A"	356,544	381,544	7.0%	25,000	19,905
Federal Government Contributions	43,731	43,731	0.0%	-	2,281
Legal Reserve	1,002	1,002	0.0%	-	52
Comprehensive accumulated results	71,947	(78,144)	-208.6%	(150,091)	(4,077)
Retained earnings (accumulated losses)	(1,933,107)	(2,021,512)	-4.6%	(88,405)	(105,460)
From prior years	(1,752,732)	(1,933,107)	-10.3%	(180,374)	(100,848)
For the year	(180,374)	(88,405)	51.0%	91,969	(4,612)
Participation of non-holding entities	477	370	-22.4%	(107)	19
Total liabilities and equity	2,075,197	2,021,266	-2.6%	(53,931)	105,447

PEMEX
Selected Financial Indices

	As of Dec. 31, 2018	As of June 30, 2019	Change
Property, plant and equipment / Assets	67.6%	65.9%	(1.7)
Financial debt / Total liabilities and equity	100.3%	99.0%	(1.3)
Working capital (MXN million)	(54,666)	(175,449)	(120,783)

PEMEX
Consolidated total financial debt

	As of Dec. 31, 2018	As of June 30, 2019	Change		2019
		(MXN million)			(USD million)
Total financial debt	2,082,286	2,000,922	-3.9%	(81,365)	104,386
Short-term	191,796	279,220	45.6%	87,424	14,567
Long-term	1,890,490	1,721,702	-8.9%	(168,789)	89,819
Cash and cash equivalent	81,919	44,419	-45.8%	(37,499)	2,317
Total net financial debt	2,000,368	1,956,502	-2.2%	(43,865)	102,069

PEMEX
Financial debt maturity profile

As of June 30, 2019
(MXN million) (USD million)

Total financial debt	2,000,922	104,386
In Mexican pesos	266,778	13,918
July 2019 - December 2019	51,271	2,675
January 2020 - June 2020	19,250	1,004
July 2020 - June 2021	18,368	958
July 2021 - June 2022	32,805	1,711
July 2022 - June 2023	9,797	511
July 2023 and forward	135,287	7,058
Other currencies	1,734,144	90,468
July 2019 - December 2019	137,249	7,160
January 2020 - June 2020	71,451	3,728
July 2020 - June 2021	173,296	9,041
July 2021 - June 2022	177,378	9,254
July 2022 - June 2023	101,726	5,307
July 2023 and forward	1,073,045	55,980

PEMEX
Exposure of Debt Principal⁽¹⁾

	As of December 31, 2018	As of June 30, 2019	As of December 31, 2018	As of June 30, 2019	As of December 31, 2018	As of June 30, 2019
	<u>By currency</u>		<u>At fixed rate</u>		<u>At floating rate</u>	
Total	100.0%	100.0%	84.4%	81.0%	15.6%	19.0%
USD	83.2%	83.2%	88.6%	85.2%	11.4%	14.8%
MXN	13.4%	13.1%	54.0%	54.3%	46.0%	45.7%
EUR	2.5%	3.2%	100.0%	77.9%	0.0%	22.1%
CHF	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%
GBP	0.1%	0.0%	100.0%	100.0%	0.0%	0.0%
JPY	0.5%	0.5%	100.0%	100.0%	0.0%	0.0%
UDIs	0.3%	0.0%	100.0%	0.0%	0.0%	0.0%

(1) Includes derivative financial instruments.

PEMEX
Derivative Financial Instruments

	As of December 31, <u>2018</u>	As of June 30, <u>2019</u>	<u>Change</u>	<u>2019</u>
	(MXN million)			(USD million)
Derivative financial instruments linked to debt and assets				
Mark to market (MXN million)	12,030	(2,177)	(14,207)	(114)
Interest rate swaps	1,020	(30)	(1,050)	(1.6)
Cross currency swaps	6,104	(2,687)	(8,791)	(140)
Currency options	3,247	(225)	(3,472)	(12)
Currency swaps without notional exchange	2,108	765	(1,344)	40
Currency forward	(450)	-	450	-
Face value (MXN million)	666,086	652,139	(13,948)	34,021
Interest rate swaps	30,043	24,727	(5,316)	1,290
Cross currency swaps	341,173	346,888	5,716	18,097
Currency options	161,116	193,659	32,544	10,103
Currency swaps without notional exchange	90,012	86,863	(3,149)	4,532
Currency forward	43,743	-	(43,743)	-
Crude oil derivative financial instruments				
Mark to market (MXN million)	154.0	2,528.2	2,374.2	132
Crude options	154.0	2,528.2	2,374.2	132
Volume (MM barrels)	73.9	53.8	(20.2)	2.8
Crude options	73.9	53.8	(20.2)	2.8
Natural gas derivative financial instruments				
Mark to market (MXN million)	0.1	0.0	(0.1)	0.0
Long swaps	(0.4)	(0.3)	0.0	(0.0)
Short swaps	0.5	0.4	(0.1)	0.0
Long options	0.0	-	(0.0)	-
Short options	(0.0)	-	0.0	-
Volume (MMBtu)				
Long swaps	170,562	31,182	(139,380)	N.A.
Short swaps	(170,562)	(31,182)	139,380	N.A.
Long options	71,850	-	(71,850)	N.A.
Short options	(71,850)	-	71,850	N.A.
Crude oil and petroleum products derivative financial instruments classified as cash and cash equivalents for accounting purposes due to high liquidity				
Mark to market (MXN million)	(1,117.1)	(284.3)	832.8	(14.8)
Stock market futures	(55.4)	(195.0)	(139.7)	(10.2)
Stock market swaps	(1,061.8)	(89.3)	972.5	(4.7)
Net volume (MM barrels)	(2.4)	(2.2)	0.2	N.A.
Stock market futures	(1.2)	(5.8)	(4.6)	N.A.
Stock market futures	(1.2)	3.6	4.8	N.A.
Derivative financial instruments of PMI				
Mark to market (MXN million)				
Interest rate swaps OTC markets	(1.8)	(13.8)	(12.0)	(0.7)
Face value (MXN million)				
Interest rate swaps OTC markets	1,279.0	935.8	(343.2)	48.8

Note: the fair value of the Derivative Financial Instruments has been adjusted in accordance with International Financial Reporting Standards (IFRS).

PEMEX
Consolidated Statements of Cash Flows

	As of June 30,		<u>Change</u>	<u>2019</u>	
	<u>2018</u>	<u>2019</u>		<u>(USD million)</u>	
	<u>(MXN million)</u>				
Operating activities					
Net income (loss)	(49,860)	(88,509)	-77.5%	(38,649)	(4,617)
Items related to investing activities	50,610	94,660	87.0%	44,050	4,938
Depreciation and amortization	73,734	69,030	-6.4%	(4,704)	3,601
Amortization of Intangibles	191	291	52.1%	100	15
Impairment of properties, plant and equipment	(42,360)	9,598	122.7%	51,958	501
Exploration expenses	9,054	10,923	20.6%	1,869	570
Retirement of property, plant and equipment	9,758	972	-90.0%	(8,785)	51
Amortization of right-of-use	-	3,849		3,849	201
Effects of non-consolidated subsidiaries and affiliates	(848)	15	101.8%	863	1
Effects of net present value of reserve for well abandonment	1,081	(19)	-101.8%	(1,100)	(1)
Activities related to financing activities	44,757	6,653	-85.1%	(38,103)	347
Interest expense (income)	56,973	61,298	7.6%	4,325	3,198
Accrued interest	(10,970)	(7,079)	35.5%	3,891	(369)
Unrealized loss (gain) from foreign exchange fluctuations	(1,246)	(47,565)	-3716.1%	(46,319)	(2,481)
Subtotal	45,506	12,804	-71.9%	(32,702)	668
Funds provided by (used in) operating activities	18,742	(12,305)	-165.7%	(31,047)	(642)
Taxes and duties on profits	225,597	188,389	-16.5%	(37,208)	9,828
Taxes paid	(215,679)	(186,084)	13.7%	29,596	(9,708)
Financial instruments for negotiation	185	3,282	1670.7%	3,097	171
Accounts and notes receivable	(917)	(14,790)	-1513.2%	(13,873)	(772)
Inventories	10,533	7,921	-24.8%	(2,613)	413
Accounts payable and accrued expenses	(1,910)	(269)	85.9%	1,641	(14)
Suppliers	(30,484)	(20,788)	31.8%	9,696	(1,084)
Reserve for diverse credits	6,559	(2,455)	-137.4%	(9,013)	(128)
Reserve for employees benefits	29,472	36,250	23.0%	6,778	1,891
Other taxes and duties	(4,614)	(23,762)	-415.0%	(19,148)	(1,240)
Net cash flow from operating activities	64,248	499	-99.2%	(63,749)	26
Investment activities					
Acquisition of property, plant and equipment	(32,524)	(31,132)	4.3%	1,392	(1,624)
Document received by the Federal Government	-	32,312		32,312	1,686
Interest charged for the document received by the Fede	-	6,392		6,392	333
Other documents receivable	10,102	2,792	-72.4%	(7,310)	146
Intangible assets	(8,249)	(10,058)	-21.9%	(1,810)	(525)
Other assets	(4,641)	2,012	143.3%	6,653	105
Net cash flow from investing activities	(35,312)	2,317	106.6%	37,630	121
Cash needs related to financing activities	28,936	2,817	-90.3%	(26,119)	147
Financing activities					
Increase of contributions from the Federal Government	-	25,000		25,000	1,304
Amortization and interest payments due to financial leasings	-	(4,243)		(4,243)	(221)
Loans obtained from financial institutions	449,929	420,752	-6.5%	(29,177)	21,950
Amortization of loans	(416,412)	(418,849)	-0.6%	(2,437)	(21,851)
Interest paid	(56,785)	(61,848)	-8.9%	(5,063)	(3,227)
Net cash flow from financing activities	(23,269)	(39,189)	-68.4%	(15,920)	(2,044)
Net Increase (decrease) in cash and cash equivalents	5,667	(36,372)	-741.8%	(42,039)	(1,897)
Effect of change in cash value	5,988	(1,121)	-118.7%	(7,109)	(58)
Cash and cash equiv. at the beginning of the period	97,852	81,912	-16.3%	(15,939)	4,273
Cash and cash equivalents at the end of the period	109,507	44,419	-59.4%	(65,087)	2,317

PEMEX
EBITDA Reconciliation

	Second quarter (Apr.-Jun.)					Six months ending Jun. 30,				
	<u>2018</u>	<u>2019</u>	<u>Change</u>	<u>2019</u>		<u>2018</u>	<u>2019</u>	<u>Change</u>	<u>2019</u>	
	(MXN million)			(USD million)		(MXN million)			(USD million)	
Operating income (loss)	119,868	52,787	-56.0%	(67,081)	2,754	227,279	113,488	-50.1%	(113,791)	5,921
+ Net cost for the period of employee benefits	29,021	31,157	7.4%	2,135	1,625	58,043	59,244	2.1%	1,201	3,091
- Pension payment and seniority premium	13,683	14,460	5.7%	777	754	25,424	26,966	6.1%	1,542	1,407
- Health service	1,386	1,433	3.4%	48	75	2,772	2,867	3.4%	95	150
+ Depreciation	19,366	18,001	-7.0%	(1,365)	939	38,497	38,353	-0.4%	(144)	2,001
+ Amortization	20,089	19,493	-3.0%	(597)	1,017	35,237	30,677	-12.9%	(4,560)	1,600
+ Impairment	(23,322)	4,443	119.1%	27,765	232	(42,360)	9,598	122.7%	51,958	501
EBITDA	149,953	109,987	-26.7%	(39,967)	5,738	288,499	221,526	-23.2%	(66,973)	11,557

PEMEX
Business Segment Information

	Petróleos Mexicanos and Subsidiary Companies										Total
	Exploration and Production	Commercial entities	Mexicanos and Subsidiary Companies	Intersegment eliminations	Fertilizers (2)	Ethylene (2)	Cogeneration (1)	Perforation (2)	Logistics (3)	Industrial Transformation (4)	
(MXN million)											
Six months ending Jun. 30, 2019											
Total sales	381,478	346,347	54,577	(581,890)	1,346	5,981	-	2,779	46,031	476,251	732,900
External clients	214,861	96,748	2,522	-	1,053	5,254	-	-	-	407,562	728,001
Intersegment	166,241	249,571	50,463	(581,890)	292	723	-	2,758	43,661	68,181	0
Revenues from services	376	28	1,591	-	1	4	-	21	2,371	508	4,899
Cost of sales	260,777	338,240	25,868	(549,872)	1,938	7,978	(1,918)	(25,486)	490,805	548,329	
Gross income (loss)	120,701	8,107	28,709	(32,018)	(592)	(1,997)	4,697	71,518	(14,555)	184,571	
Other revenues (expenses)	721	782	2,336	2,533	6	78	(15)	(2,106)	1,519	5,854	
Transportation and distribution expenses	126	635	42	(2,374)	177	126	-	25	12,287	11,043	
Administrative expenses	28,356	930	33,891	(27,497)	289	585	-	283	3,732	25,324	65,894
Operating income (loss)	92,940	7,324	(2,888)	386	(1,053)	(2,630)	4,400	65,655	(50,646)	113,488	
Total interest expense	(61,832)	(486)	(93,245)	98,472	(361)	(185)	-	(387)	(2,995)	(61,298)	
Total interest income	36,589	434	67,324	(98,858)	2	14	-	249	138	1,187	7,079
Income (cost) due to financial derivatives	(427)	(1,457)	(5,090)	0	-	-	-	-	-	(7)	(4,980)
Foreign exchange profit (loss)	47,970	(214)	2,996	-	61	(36)	-	96	135	1,819	52,827
Profit sharing in non-consolidated	41	(108)	(53,342)	53,394	-	-	-	-	(0)	-	(15)
Taxes and duties	194,282	2,899	3,871	-	-	(1,446)	-	1,498	(5,495)	-	195,609
Net income (loss)	(79,000)	2,594	(86,116)	53,394	(1,351)	(1,391)	-	2,860	71,145	(50,642)	(88,509)
Impairment of assets	50,867	-	-	-	-	-	-	-	(39,763)	(1,507)	9,598
Depreciation and amortization	57,461	45	1,070	-	(150)	607	-	370	1,602	8,026	69,030
Net cost of the period for employee benefits	17,716	-	13,699	-	-	10	-	-	14	27,654	59,244
As of June 30, 2019											
Total assets	1,903,292	162,004	1,985,068	(2,818,336)	7,266	25,853	-	30,138	171,843	554,138	2,021,266
Current assets	967,735	132,255	668,149	(1,712,969)	2,128	6,800	-	15,846	22,879	222,704	325,526
Investment in securities of associated companies	160	15,293	(599,313)	600,047	-	-	-	-	17	0	16,204
Property, plant and equipment	891,379	2,537	30,916	(24,246)	4,454	18,722	-	14,297	115,818	277,449	1,331,325
Total liabilities	2,483,951	94,806	3,631,754	(3,418,383)	11,473	8,019	-	14,254	26,422	841,981	3,694,275
Current liabilities	303,324	90,725	1,605,559	(1,711,109)	10,705	7,619	-	3,443	16,908	173,800	500,975
Long-term liabilities	2,180,627	4,080	2,026,194	(1,707,275)	767	400	-	10,811	9,514	668,181	3,193,300
Long-term debt	1,708,167	1,509	1,718,141	(1,737,186)	-	-	-	9,635	1,578	19,857	1,721,702
Employee benefits	375,828	(932)	295,352	-	139	152	-	254	2,417	592,550	1,265,570
Equity	(580,659)	67,199	(1,646,685)	600,047	(4,207)	17,834	-	15,884	145,421	(287,843)	(1,673,009)
Six months ending Jun. 30, 2018											
Total sales	449,592	425,589	52,155	(708,399)	2,822	7,274	-	2,238	34,509	567,790	833,570
External clients	235,689	101,553	2,012	-	1,774	6,563	-	-	-	481,691	829,283
Intersegment	213,903	324,000	48,776	(708,399)	1,046	705	-	2,213	32,019	85,737	-
Revenues from services	-	36	1,367	-	2	6	-	25	2,489	363	4,287
Cost of sales	173,391	417,172	24,907	(667,062)	5,566	7,353	-	1,061	20,168	556,060	538,615
Gross income (loss)	276,202	8,417	27,248	(41,337)	(2,743)	(79)	-	1,177	14,341	11,731	294,955
Other revenues (expenses)	4,102	447	1,520	14,410	26	68	2	(1,933)	(14,266)	3,348	7,724
Transportation and distribution expenses	125	233	37	(1,991)	179	82	-	0	15	12,393	11,074
Administrative expenses	27,361	917	34,198	(25,158)	243	626	-	352	4,551	21,236	64,326
Operating income (loss)	252,818	7,714	(5,467)	222	(3,140)	(721)	2	(1,108)	(4,491)	(18,550)	227,279
Total interest expense	(59,111)	(733)	(103,576)	108,161	(190)	(26)	-	(381)	(144)	(973)	(56,973)
Total interest income	42,976	370	70,369	(108,383)	3	12	0	143	613	4,867	10,970
Income (cost) due to financial derivatives	(9,683)	(1,662)	2,073	0	-	-	-	-	-	(21)	(9,293)
Foreign exchange profit (loss)	8,727	265	(4,734)	-	(10)	(10)	-	(34)	(99)	(1,599)	2,505
Profit sharing in non-consolidated	60	432	(5,268)	5,625	-	-	-	-	(1)	-	848
Taxes and duties	226,543	3,865	1,326	-	-	-	-	-	(411)	(6,127)	225,196
Net income (loss)	9,244	2,522	(47,930)	5,625	(3,337)	(745)	2	(970)	2,004	(16,276)	(49,860)
Impairment of assets	(36,711)	-	-	-	2,154	-	-	-	-	(7,803)	(42,360)
Depreciation and amortization	59,023	31	1,048	-	(47)	692	-	1,151	2,534	9,303	73,734
Net cost of the period for employee benefits	17,203	17	13,524	-	7	6	-	-	17	27,159	58,043
As of December 31, 2018											
Total assets	2,132,551	166,667	2,348,487	(3,269,773)	6,961	26,109	-	26,746	115,441	522,009	2,075,197
Current assets	1,109,407	137,728	723,491	(1,853,935)	2,773	8,338	-	11,478	15,344	238,487	393,110
Investment in securities of associated companies	118	15,956	(422,349)	423,099	-	-	-	-	17	0	16,842
Property, plant and equipment	972,259	2,651	31,675	-	4,150	19,159	-	14,474	75,098	283,020	1,402,486
Total liabilities	2,588,734	102,280	3,779,469	(3,692,872)	9,791	6,860	-	13,702	41,751	684,887	3,534,603
Current liabilities	334,710	98,008	1,662,808	(1,853,927)	9,683	6,710	-	2,962	31,419	155,403	447,776
Long-term liabilities	2,254,024	4,272	2,116,661	(1,838,945)	108	150	-	10,739	10,332	529,484	3,086,826
Long-term debt	1,842,104	1,940	1,851,687	(1,838,277)	-	-	-	10,292	2,023	20,721	1,890,490
Employee benefits	321,193	(872)	253,513	-	104	119	-	202	1,844	504,439	1,080,542
Equity	(456,183)	64,387	(1,430,982)	423,099	(2,830)	19,249	-	13,044	73,690	(162,878)	(1,459,405)

(1) Began operations in June 2015

(2) Began operations in September 2015

(3) Began operations in October 2015

(4) Began operations in November 2015

(5) Comprises the results of the previous subsidiary companies Refining, Gas and Basic Petrochemicals and Petrochemicals

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