



NYMEX/COMEX Exchange Open Interest Report - Monthly

Commodity	Open Interest OCT 2018	Open Interest OCT 2017	% CHG	Open Interest SEP 2018	% CHG	
Ag Products Futures						
COCOA TAS	CJ	0	1	-100.0%	0	-
COFFEE	KT	0	0	-	0	-
COTTON	TT	2	3	-33.3%	1	100.0%
SUGAR 11	YO	0	0	-	0	-
Energy Futures						
CRUDE OIL PHY	CL	2,092,811	2,517,482	-16.9%	2,255,749	-7.2%
CRUDE OIL	WS	572	2,427	-76.4%	572	0.0%
MINY WTI CRUDE OIL	QM	4,519	4,676	-3.4%	4,093	10.4%
BRENT OIL LAST DAY	BZ	218,768	147,913	47.9%	200,540	9.1%
HEATING OIL PHY	HO	414,863	434,221	-4.5%	416,824	-0.5%
HTG OIL	BH	175	357	-51.0%	182	-3.8%
MINY HTG OIL	QH	2	1	100.0%	0	-
RBOB PHY	RB	387,094	403,652	-4.1%	419,158	-7.6%
MINY RBOB GAS	QU	0	0	-	0	0.0%
NATURAL GAS	HP	79,915	117,730	-32.1%	80,269	-0.4%
LTD NAT GAS	HH	467,999	397,158	17.8%	463,929	0.9%
MINY NATURAL GAS	QG	2,139	1,921	11.3%	2,024	5.7%
PJM MONTHLY	JM	690	1,940	-64.4%	880	-21.6%
NATURAL GAS PHY	NG	1,522,351	1,384,396	10.0%	1,623,201	-6.2%
RBOB GAS	RT	103	2,330	-95.6%	98	5.1%
3.5% FUEL OIL CID MED SWA	7D	148	258	-42.6%	158	-6.3%
3.5% FUEL OIL CIF BALMO S	8D	0	0	-	0	-
AEP-DAYTON HUB DAILY	VD	68	164	-58.5%	68	0.0%
AEP-DAYTON HUB MTHLY	VM	0	210	-100.0%	0	-
AEP-DAYTON HUB OFF-PEAK M	VP	0	150	-100.0%	0	-
ALGON CITY GATES NAT GAS	N7	0	248	-100.0%	0	-
ALGONQUIN CITYGATES BASIS	B4	0	516	-100.0%	0	-
ANR LOUISIANA BASIS SWAP	ND	0	0	-	0	-
ANR OKLAHOMA	NE	363	1,764	-79.4%	518	-29.9%
APPALACHIAN COAL (PHY)	QL	0	0	-	0	-
ARGUS LLS VS. WTI (ARG) T	E5	40,755	31,923	27.7%	37,984	7.3%
ARGUS PROPAN FAR EST INDE	7E	5,654	3,115	81.5%	5,688	-0.6%
ARGUS PROPAN(SAUDI ARAMCO	9N	2,431	830	192.9%	3,008	-19.2%
AUSTRIALIAN COKE COAL	ACT	0	0	-	0	-
AUSTRIALIAN COKE COAL	ALW	120	468	-74.4%	144	-16.7%
BRENT BALMO SWAP	J9	0	0	-	100	-100.0%
BRENT CALENDAR SWAP	CY	21,510	17,813	20.8%	18,565	15.9%
BRENT CFD SWAP	6W	0	0	-	0	-
BRENT FINANCIAL FUTURES	BB	3,892	6,327	-38.5%	5,322	-26.9%
BRENT FINANCIAL FUTURES	MBC	0	0	-	0	-
BRENT FINANCIAL FUTURES	MDB	0	39	-100.0%	0	-
BRENT OIL LAST DAY	BZL	0	0	0.0%	0	0.0%
BRENT OIL LAST DAY	BZS	0	0	0.0%	0	0.0%
CAISO SP15 EZGNHUB5 MW P	9X	0	0	-	0	-
CAISO SP15 EZGNHUB5 PEAK	9Z	0	0	-	0	-
CANADIAN LIGHT SWEET OIL	CIL	7	699	-99.0%	14	-50.0%
CENTERPOINT BASIS SWAP	PW	3,303	11,017	-70.0%	4,005	-17.5%
CENTERPOINT EAST INDEX	II	0	0	-	0	-
CEU ENERGY	DEB	51	0	-	61	-16.4%
CEU ENERGY	TTF	131	0	-	141	-7.1%



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Energy Futures					
CEU ENERGY	130	0	-	178	-27.0%
CHICAGO ETHANOL SWAP	51,437	51,041	0.8%	55,220	-6.9%
CHICAGO ULSD (PLATTS) SWA	0	0	-	0	-
CHICAGO ULSD PL VS HO SPR	1,408	846	66.4%	1,675	-15.9%
CHICAGO UNL GAS PL VS RBO	100	9	1,011.1%	225	-55.6%
CIG BASIS	9,163	26,739	-65.7%	10,588	-13.5%
CIG ROCKIES NG INDEX SWA	0	0	-	0	-
CINERGY HUB OFF-PEAK MONT	30	120	-75.0%	40	-25.0%
CINERGY HUB PEAK MONTH	72	288	-75.0%	96	-25.0%
CIN HUB 5MW D AH O PK	14,840	198,568	-92.5%	28,280	-47.5%
CIN HUB 5MW D AH PK	2,902	9,843	-70.5%	4,348	-33.3%
CIN HUB 5MW REAL TIME O P	206,264	522,936	-60.6%	232,584	-11.3%
CIN HUB 5MW REAL TIME PK	21,777	41,211	-47.2%	23,686	-8.1%
COAL SWAP	20	255	-92.2%	40	-50.0%
COAL SWAP	0	0	-	0	-
COLUMB GULF MAINLINE NG B	670	6,813	-90.2%	1,005	-33.3%
COLUMBIA GULF MAIN NAT G	0	0	-	0	-
COLUMBIA GULF ONSHORE	0	2,867	-100.0%	0	-
CONWAY NATURAL GASOLINE (OPIS) SWAP	719	1,421	-49.4%	840	-14.4%
CONWAY NORMAL BUTANE (OPIS) SWAP	1,524	3,217	-52.6%	1,714	-11.1%
CONWAY PROPANE 5 DECIMALS SWAP	25,507	17,699	44.1%	25,538	-0.1%
CRUDE OIL	0	0	-	0	-
CRUDE OIL	23,480	17,895	31.2%	23,380	0.4%
CRUDE OIL OUTRIGHTS	0	0	-	0	-
CRUDE OIL OUTRIGHTS	214	0	-	367	-41.7%
CRUDE OIL OUTRIGHTS	210	60	250.0%	90	133.3%
CRUDE OIL OUTRIGHTS	0	0	-	0	-
CRUDE OIL OUTRIGHTS	0	0	-	0	-
CRUDE OIL OUTRIGHTS	2,280	755	202.0%	2,280	0.0%
CRUDE OIL OUTRIGHTS	0	0	-	0	-
CRUDE OIL OUTRIGHTS	0	0	-	0	-
CRUDE OIL OUTRIGHTS	0	45	-100.0%	0	-
CRUDE OIL OUTRIGHTS	131,835	54,745	140.8%	134,810	-2.2%
CRUDE OIL OUTRIGHTS	175	1,845	-90.5%	350	-50.0%
CRUDE OIL OUTRIGHTS	0	120	-100.0%	0	-
CRUDE OIL OUTRIGHTS	0	0	-	0	-
CRUDE OIL OUTRIGHTS	0	0	-	0	-
CRUDE OIL OUTRIGHTS	160	2,810	-94.3%	320	-50.0%
CRUDE OIL OUTRIGHTS	10,856	19,071	-43.1%	12,510	-13.2%
CRUDE OIL PHY	0	0	0.0%	0	0.0%
CRUDE OIL SPRDS	615	0	-	820	-25.0%
CRUDE OIL SPRDS	151,177	52,108	190.1%	161,046	-6.1%
CRUDE OIL TRADE AT MARKER SINGAPORE	0	0	0.0%	0	0.0%
DAILY PJM	2,400	10,656	-77.5%	4,320	-44.4%
DAILY PJM	18,986	15,873	19.6%	16,384	15.9%
DAILY PJM	12,384	24,192	-48.8%	19,296	-35.8%
DAILY PJM	650	792	-17.9%	700	-7.1%
DAILY PJM	3,784	11,825	-68.0%	4,096	-7.6%
DAILY PJM	21,846	139,502	-84.3%	24,200	-9.7%
DAILY PJM	1,430	5,704	-74.9%	1,535	-6.8%
DAILY PJM	22,231	82,775	-73.1%	24,064	-7.6%
DAILY PJM	1,222	4,836	-74.7%	1,316	-7.1%
DAILY PJM	16,320	25,344	-35.6%	24,480	-33.3%

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Energy Futures						
DAILY PJM	ZAO	12,397	14,190	-12.6%	7,168	72.9%
DAILY PJM	ZGO	26,961	9,933	171.4%	29,184	-7.6%
DAILY PJM	ZJO	11,825	2,365	400.0%	12,800	-7.6%
DATED BRENT (PLATTS) DAILY SWAP	7G	0	0	-	0	-
DATED TO FRONTLINE BRENT	FY	3,715	11,920	-68.8%	3,840	-3.3%
DEMARC INDEX FUTURE	DI	0	0	-	0	-
DEMARC SWING SWAP	DT	0	0	-	0	-
DIESEL 10P BRG FOB RDM VS	7X	0	0	-	0	-
DIESEL 10PPM BARGES FOB B	U7	0	0	-	0	-
DLY GAS EURO-BOB OXY	GBR	0	0	-	0	-
DOMINION TRAN INC - APP I	IH	736	2,920	-74.8%	976	-24.6%
DOMINION TRANSMISSION INC	PG	14,609	36,182	-59.6%	16,035	-8.9%
DUBAI CRUDE OIL BALMO	BI	0	0	-	0	-
DUBAI CRUDE OIL CALENDAR	DC	39,415	10,680	269.1%	20,310	94.1%
DY EURO 3.5% FUEL OI RDA	FOR	0	0	-	0	-
EASTERN RAIL DELIVERY CSX	QX	30	280	-89.3%	60	-50.0%
EAST/WEST FUEL OIL SPREAD	EW	42	165	-74.5%	107	-60.7%
EIA FLAT TAX ONHWAY DIESE	A5	1,898	3,555	-46.6%	1,927	-1.5%
ELEC ERCOT DLY OFF PK	I4	0	0	-	0	-
ELEC ERCOT DLY OFF PK	R4	0	0	-	0	-
ELEC ERCOT DLY PEAK	I3	0	0	-	0	-
ELEC ERCOT DLY PEAK	I7	0	0	-	300	-100.0%
ELEC ERCOT DLY PEAK	N1	0	0	-	0	-
ELEC ERCOT DLY PEAK	R1	0	0	-	0	-
ELEC ERCOT OFF PEAK	I2	0	0	-	0	-
ELEC FINSETTLED	47	1,152	1,849	-37.7%	1,190	-3.2%
ELEC FINSETTLED	49	0	0	-	0	-
ELEC MISO PEAK	4L	960	3,825	-74.9%	1,245	-22.9%
ELEC MISO PEAK	55	0	252	-100.0%	0	-
ELEC NYISO OFF-PEAK	4M	17,775	70,200	-74.7%	24,015	-26.0%
ELEC NYISO OFF-PEAK	58	0	4,804	-100.0%	0	-
ELECTRICITY ERCOT PEAK	ERE	0	0	-	0	-
ELECTRICITY OFF PEAK	46	21,074	34,069	-38.1%	21,906	-3.8%
ELECTRICITY OFF PEAK	4P	0	0	-	0	-
ELECTRICITY OFF PEAK	50	0	0	-	0	-
ELEC WEST POWER OFF-PEAK	MDA	0	0	-	0	-
ELEC WEST POWER PEAK	MDC	0	0	-	0	-
EL PASO PERMIAN INDEX SWA	IL	0	0	-	0	-
ERCOT DAILY 5MW PEAK	ERW	0	0	-	0	-
ERCOT HOUSTON Z MCPE 5MW PEAK SWAP	I1	0	3,880	-100.0%	0	-
ERCOT NORTH ZMCPE 5MW OFFPEAK	I8	0	0	-	10,080	-100.0%
ERCOT NORTH ZMCPE 5MW OFFPEAK SWAP	I6	0	61,200	-100.0%	0	-
ERCOT NORTH ZMCPE 5MW PEAK	I5	0	3,880	-100.0%	0	-
ETHANOL SWAP	MT2	120	0	-	170	-29.4%
ETHANOL T2 FOB ROTT INCL DUTY SWAP	Z1	5,832	6,323	-7.8%	4,391	32.8%
EURO 1% FUEL OIL NEW BALM	KX	0	0	-	8	-100.0%
EURO 3.5% FUEL OIL RDAM B	KR	162	242	-33.1%	110	47.3%
EURO 3.5% FUEL OIL SPREAD	FK	86	562	-84.7%	162	-46.9%
EURO-DENOMINATED PETRO PROD	NCP	0	0	-	96	-100.0%
EURO GASOIL 10 CAL SWAP	GT	0	0	-	0	-
EURO GASOIL 10PPM VS ICE	ET	126	342	-63.2%	176	-28.4%
EUROPE 1% FUEL OIL NWE CA	UF	177	42	321.4%	142	24.6%
EUROPE 1% FUEL OIL RDAM C	UH	3	0	-	3	0.0%

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Energy Futures						
EUROPE 3.5% FUEL OIL MED	UI	198	378	-47.6%	166	19.3%
EUROPE 3.5% FUEL OIL RDAM	UV	9,984	9,042	10.4%	10,904	-8.4%
EUROPEAN GASOIL (ICE)	7F	203	925	-78.1%	212	-4.2%
EUROPEAN NAPHTHA BALMO	KZ	420	187	124.6%	119	252.9%
EUROPEAN NAPHTHA CRACK SPR	EN	19,417	11,087	75.1%	16,438	18.1%
EUROPE DATED BRENT SWAP	UB	2,200	1,337	64.5%	1,090	101.8%
EUROPE JET KERO NWE CALSW	UJ	33	54	-38.9%	36	-8.3%
EUROPE NAPHTHA CALSWAP	UN	4,114	2,667	54.3%	3,327	23.7%
EURO PROPANE CIF ARA SWA	PS	2,028	1,356	49.6%	1,613	25.7%
FL GAS ZONE 3 NAT GAS IND	Q9	0	0	-	0	-
FLORIDA GAS ZONE3 BASIS S	FP	0	0	-	0	-
FREIGHT MARKETS	FLP	1,289	844	52.7%	910	41.6%
FREIGHT MARKETS	FRC	225	0	-	275	-18.2%
FREIGHT MARKETS	FRS	0	0	-	0	-
FREIGHT MARKETS	T2D	1,795	0	-	1,240	44.8%
FREIGHT MARKETS	TC6	0	0	-	0	-
FREIGHT MARKETS	TD3	30	0	-	30	0.0%
FREIGHT MARKETS	TD8	150	0	-	0	-
FUEL OIL CRACK VS ICE	FO	11,113	15,901	-30.1%	11,110	0.0%
FUEL OIL NWE CRACK VS ICE	FI	171	0	-	171	0.0%
FUEL OIL (PLATS) CAR CM	1W	42	29	44.8%	56	-25.0%
FUEL OIL (PLATS) CAR CN	1X	75	0	-	85	-11.8%
FUELOIL SWAP:CARGOES VS.B	FS	784	984	-20.3%	783	0.1%
GAS EURO-BOB OXY NWE BARGES	7H	6,389	4,125	54.9%	6,873	-7.0%
GAS EURO-BOB OXY NWE BARGES CRK	7K	33,505	28,345	18.2%	32,221	4.0%
GASOIL 0.1 BRGS FOB VS IC	6V	0	0	-	0	-
GASOIL 0.1 CIF MED SWAP	Z4	0	0	-	0	-
GASOIL 0.1CIF MED VS ICE	Z5	0	15	-100.0%	0	-
GASOIL 0.1 CIF NWE VS ISE	TU	0	0	-	0	-
GASOIL 0.1 CIF VS ICE GAS	8W	0	0	-	0	-
GASOIL 0.1 CRG CIF NW VS	4V	0	0	-	0	-
GASOIL 0.1 RDAM BRGS VS I	WQ	39	144	-72.9%	63	-38.1%
GASOIL 0.1 ROTTERDAM BARG	VL	100	25	300.0%	105	-4.8%
GASOIL 10P CRG CIF NW VS	3V	0	0	-	0	-
GASOIL 10PPM CARGOES CIF	TY	0	0	-	0	-
GASOIL 10PPM VS ICE SWAP	TP	144	747	-80.7%	191	-24.6%
GASOIL BULLET SWAP	BG	0	130	-100.0%	0	-
GASOIL CALENDAR SWAP	GX	12	25	-52.0%	17	-29.4%
GASOIL CRACK SPREAD CALEN	GZ	18,257	21,341	-14.5%	19,005	-3.9%
GASOIL MINI CALENDAR SWAP	QA	876	433	102.3%	805	8.8%
GASOLINE UP-DOWN BALMO SW	1K	0	0	-	0	-
GROUP THREE ULSD (PLATTS)	A7	58	75	-22.7%	91	-36.3%
GROUP THREE UNLEAD GAS (P	A9	225	0	-	275	-18.2%
GRP THREE ULSD(PLT)VS HEA	A6	7,171	14,688	-51.2%	8,411	-14.7%
GRP THREE UNL GS (PLT) VS	A8	5,904	4,680	26.2%	4,883	20.9%
GULF COAST 3% FUEL OIL BA	VZ	1,067	531	100.9%	236	352.1%
GULF COAST GASOLINE CLNDR	GS	0	0	-	0	-
GULF COAST JET FUEL CLNDR	GE	819	804	1.9%	932	-12.1%
GULF COAST JET VS NYM 2 H	ME	35,418	30,549	15.9%	37,429	-5.4%
GULF COAST NO.6 FUEL OIL	MF	38,837	43,991	-11.7%	41,828	-7.2%
GULF COAST NO.6 FUEL OIL	MG	4,938	3,042	62.3%	6,068	-18.6%
GULF COAST ULSD CALENDAR	LY	1,871	2,729	-31.4%	1,887	-0.8%
GULF COAST ULSD CRACK SPR	GY	615	1,080	-43.1%	595	3.4%

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HEATING OIL BALMO CLNDR S	1G	0	0	-	20	-100.0%
HEATING OIL CRCK SPRD BAL	1H	0	0	-	0	-
HEATING OIL PHY	HOL	0	0	0.0%	0	0.0%
HENRY HUB BASIS SWAP	HB	16,844	7,869	114.1%	8,614	95.5%
HENRY HUB FINANCIAL LAST	NBP	0	6	-100.0%	0	0.0%
HENRY HUB FINANCIAL LAST	TTE	6	88	-93.2%	9	-33.3%
HENRY HUB INDEX SWAP FUTU	IN	24,904	4,030	518.0%	8,486	193.5%
HENRY HUB SWAP	NN	1,052,697	1,195,259	-11.9%	1,093,565	-3.7%
HENRY HUB SWING FUTURE	SN	0	0	-	0	-
HOUSTON SHIP CHANNEL BASI	NH	12,239	20,145	-39.2%	12,797	-4.4%
HOUSTON SHIP CHANNEL INDE	IP	0	0	-	0	-
HUSTN SHIP CHNL PIPE SWP	XJ	0	0	-	0	-
ICE BRENT DUBAI SWAP	DB	42,577	44,066	-3.4%	43,140	-1.3%
ICE GASOIL BALMO SWAP	U9	0	0	-	0	-
IN DELIVERY MONTH EUA	6T	2,450	10,598	-76.9%	3,698	-33.7%
INDIANA MISO	FAD	16,800	39,360	-57.3%	18,200	-7.7%
INDIANA MISO	FTD	6,720	5,952	12.9%	10,080	-33.3%
INDIANA MISO	FTM	0	0	-	0	-
INDIANA MISO	PDD	2,355	1,992	18.2%	2,283	3.2%
INDIANA MISO	PDM	0	0	-	0	-
INDIANA MISO	PTD	581	364	59.6%	581	0.0%
INDIANA MISO	PTM	0	0	-	0	-
INDONESIAN COAL	MCC	0	0	-	0	-
INDONESIAN COAL ICI4	ICI	210	0	-	295	-28.8%
ISO NEW ENGLAND OFF-PEAK	KI	0	42	-100.0%	0	-
ISO NEW ENGLAND PK LMP	NI	0	51	-100.0%	0	-
JAPAN C&F NAPHTHA CRACK S	JB	175	1,579	-88.9%	202	-13.4%
JAPAN C&F NAPHTHA SWAP	JA	2,798	1,749	60.0%	2,602	7.5%
JAPAN NAPHTHA BALMO SWAP	E6	82	10	720.0%	28	192.9%
JET AV FUEL (P) CAR FM ICE GAS SWAP	1V	6	39	-84.6%	8	-25.0%
JET BARGES VS ICE GASOIL	JR	0	0	-	0	-
JET CIF NWE VS ICE	JC	378	486	-22.2%	436	-13.3%
JET FUEL BRG FOB RDM VS I	9Q	0	0	-	0	-
JET FUEL CRG CIF NEW VS I	6X	0	0	-	0	-
JET FUEL UP-DOWN BALMO CL	1M	5,565	6,890	-19.2%	4,410	26.2%
LA CARB DIESEL (OPIS)	LX	0	0	-	0	-
LA CARB DIESEL (OPIS) SWA	KL	525	350	50.0%	695	-24.5%
LA CARBOB GASOLINE(OPIS)S	JL	550	475	15.8%	100	450.0%
LA JET FUEL VS NYM NO 2 H	MQ	0	0	-	0	-
LA JET (OPIS) SWAP	JS	1,819	2,425	-25.0%	1,758	3.5%
LLS (ARGUS) CALENDAR SWAP	XA	563	0	-	585	-3.8%
LLS (ARGUS) VS WTI SWAP	WJ	34,346	16,669	106.0%	33,977	1.1%
MARS (ARGUS) VS WTI SWAP	YX	6,420	10,399	-38.3%	6,500	-1.2%
MARS (ARGUS) VS WTI TRD M	YV	16,600	22,594	-26.5%	15,330	8.3%
MARS BLEND CRUDE OIL	MB	0	2,720	-100.0%	0	-
MCCLOSKEY ARA ARG S COAL	MTF	28,811	53,015	-45.7%	34,730	-17.0%
MCCLOSKEY RCH BAY COAL	MFF	3,034	7,193	-57.8%	4,339	-30.1%
MGF FUT	MGF	40	40	0.0%	40	0.0%
MGN1 SWAP FUT	MGN	336	309	8.7%	358	-6.1%
MICHCON NG INDEX SWAP	Y8	0	0	-	0	-
MICHIGAN BASIS	NF	2,693	6,211	-56.6%	2,916	-7.6%
MICHIGAN MISO	HMO	8,288	86,760	-90.4%	11,200	-26.0%
MICHIGAN MISO	HMW	448	5,250	-91.5%	581	-22.9%

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NYMEX/COMEX Exchange Open Interest Report - Monthly

Commodity		Open Interest OCT 2018	Open Interest OCT 2017	% CHG	Open Interest SEP 2018	% CHG
Energy Futures						
MINI GAS EUROBOB OXY NWE ARGV BALMO	MEB	247	321	-23.1%	183	35.0%
MINI RBOB V. EBOBARG NWE BRGS BALMO	MXR	0	554	-100.0%	348	-100.0%
MINI RBOB V. EBOB(ARGUS) NWE BRGS	MXB	3,646	1,616	125.6%	3,203	13.8%
MJC FUT	MJC	330	660	-50.0%	280	17.9%
MNC FUT	MNC	6,345	3,860	64.4%	5,969	6.3%
MONT BELVIEU ETHANE 5 DECIMAL	C0	42,299	70,148	-39.7%	44,032	-3.9%
MONT BELVIEU ETHANE OPIS BALMO	8C	125	93	34.4%	195	-35.9%
MONT BELVIEU LDH PROPANE 5 DECIMAL	B0	127,903	114,100	12.1%	126,015	1.5%
MONT BELVIEU LDH PROPANE OPIS BALMO	8O	1,427	896	59.3%	1,781	-19.9%
MONT BELVIEU NATURAL GASOLINE 5 DEC	7Q	20,488	11,258	82.0%	19,405	5.6%
MONT BELVIEU NATURAL GASOLINE BALMO	R0	225	355	-36.6%	125	80.0%
MONT BELVIEU NORMAL BUTANE 5 DECIMAL	D0	54,119	43,526	24.3%	52,152	3.8%
MONT BELVIEU NORMAL BUTANE BALMO	8J	1,487	684	117.4%	741	100.7%
NAT GAS BASIS SWAP	TZ6	3,043	6,413	-52.5%	3,291	-7.5%
NATURAL GAS	HBI	0	0	-	0	-
NATURAL GAS	XIC	0	20	-100.0%	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	CFS	0	0	-	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	DSF	0	0	-	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	MFS	0	0	-	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	PFS	0	0	-	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	WFS	0	0	-	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	ZTS	0	0	-	0	-
NATURAL GAS INDEX	TZI	0	124	-100.0%	0	-
NATURAL GAS PEN SWP	NP	158,372	194,330	-18.5%	155,955	1.5%
NEPOOL CNCTCT 5MW D AH O	P3	0	1,201	-100.0%	0	-
NEPOOL CONECTIC 5MW D AH	P2	0	63	-100.0%	0	-
NEPOOL INTR HUB 5MW D AH	H2	458,400	532,720	-14.0%	443,005	3.5%
NEPOOL INTR HUB 5MW D AH	U6	27,572	37,606	-26.7%	29,066	-5.1%
NEPOOL NE MASS 5MW D AH O	P8	14,040	14,040	0.0%	14,040	0.0%
NEPOOL NE MASS 5MW D AH P	P7	765	765	0.0%	765	0.0%
NEPOOL NEW HAMP 5MW D AH	U2	0	0	-	0	-
NEPOOL NEW HAMP 5MW D AH	U3	0	0	-	0	-
NEPOOL RHD ISLD 5MW D AH	U4	0	315	-100.0%	0	-
NEPOOL RHODE IL 5MW D AH	U5	0	6,005	-100.0%	0	-
NEPOOL SE MASS 5MW D AH O	P5	0	0	-	0	-
NEPOOL SE MASS 5MW D AH P	P4	0	0	-	0	-
NEPOOL W CNT MASS 5MW D A	L9	0	2,402	-100.0%	0	-
NEPOOL W CNTR M 5MW D AH	R6	0	126	-100.0%	0	-
NEW ENGLAND HUB PEAK DAIL	CE	2,098	1,152	82.1%	2,006	4.6%
NEW YORK ETHANOL SWAP	EZ	1,130	1,625	-30.5%	1,547	-27.0%
NEW YORK HUB ZONE G PEAK	GN	2,304	919	150.7%	2,448	-5.9%
NEW YORK HUB ZONE J PEAK	JN	640	462	38.5%	790	-19.0%
NGPL MID-CONTINENT	NL	16,757	25,592	-34.5%	16,026	4.6%
NGPL MIDCONTINENT INDEX	IW	0	0	-	0	-
NGPL MIDCONTINENT SWING S	PX	0	0	-	0	-
NGPL TEX/OK	PD	31,076	24,420	27.3%	15,813	96.5%
NGPL TEXOK INDEX	OI	0	0	-	0	-
N ILLINOIS HUB DAILY	UD	178	220	-19.1%	178	0.0%
N ILLINOIS HUB MTHLY	UM	0	60	-100.0%	0	-
NO 2 UP-DOWN SPREAD CALEN	UT	350	26	1,246.2%	575	-39.1%
NORTHEN NATURAL GAS DEMAR	PE	444	2,262	-80.4%	576	-22.9%
NORTHEN NATURAL GAS VENTU	PF	1,384	1,824	-24.1%	1,396	-0.9%
NORTHERN ILLINOIS OFF-PEA	UO	0	0	-	0	-

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NYMEX/COMEX Exchange Open Interest Report - Monthly

Commodity		Open Interest OCT 2018	Open Interest OCT 2017	% CHG	Open Interest SEP 2018	% CHG
Energy Futures						
NORTHWEST ROCKIES BASIS S	NR	20,056	44,307	-54.7%	21,823	-8.1%
N ROCKIES PIPE SWAP	XR	59	242	-75.6%	59	0.0%
NY1% VS GC SPREAD SWAP	VR	2,060	4,194	-50.9%	2,890	-28.7%
NY 2.2% FUEL OIL (PLATTS	Y3	0	0	-	0	-
NY 3.0% FUEL OIL (PLATTS	H1	295	75	293.3%	545	-45.9%
NY HARBOR 1% FUEL OIL BAL	VK	0	0	-	0	-
NY HARBOR HEAT OIL SWP	MP	11,640	8,505	36.9%	10,556	10.3%
NY HARBOR LOW SULPUR GAS 1000MBBL	NLS	330	810	-59.3%	370	-10.8%
NY HARBOR RESIDUAL FUEL 1	MM	1,522	3,510	-56.6%	1,866	-18.4%
NYH NO 2 CRACK SPREAD CAL	HK	3,762	7,779	-51.6%	3,939	-4.5%
NY H OIL PLATTS VS NYMEX	YH	0	0	-	0	-
NYISO A	KA	0	0	-	0	-
NYISO A OFF-PEAK	KB	0	0	-	0	-
NYISO CAPACITY	LHV	652	423	54.1%	277	135.4%
NYISO CAPACITY	NNC	462	1,416	-67.4%	538	-14.1%
NYISO CAPACITY	NRS	502	2,140	-76.5%	663	-24.3%
NYISO G	KG	0	0	-	0	-
NYISO G OFF-PEAK	KH	0	0	-	0	-
NYISO J	KJ	0	315	-100.0%	0	-
NYISO J OFF-PEAK	KK	0	90	-100.0%	0	-
NYISO ZONE A 5MW D AH O P	K4	50,747	87,600	-42.1%	20,686	145.3%
NYISO ZONE A 5MW D AH PK	K3	4,825	8,050	-40.1%	3,798	27.0%
NYISO ZONE C 5MW D AH O P	A3	0	0	-	0	-
NYISO ZONE C 5MW D AH PK	Q5	0	0	-	0	-
NYISO ZONE G 5MW D AH O P	D2	587,403	559,329	5.0%	608,998	-3.5%
NYISO ZONE G 5MW D AH PK	T3	23,242	23,871	-2.6%	24,481	-5.1%
NYISO ZONE J 5MW D AH O P	D4	165,016	273,536	-39.7%	174,641	-5.5%
NYISO ZONE J 5MW D AH PK	D3	12,451	16,421	-24.2%	12,871	-3.3%
NY JET FUEL (PLATTS) HEAT OIL SWAP	1U	0	0	-	0	-
NYMEX ALUMINUM FUTURES	AN	891	750	18.8%	612	45.6%
NYMEX ULSD VS NYMEX HO	UY	0	0	-	0	-
NY ULSD (ARGUS) VS HEATING OIL	7Y	178	759	-76.5%	233	-23.6%
ONEOK OKLAHOMA NG BASIS	8X	122	1,391	-91.2%	2,168	-94.4%
ONTARIO POWER SWAPS	OFD	0	960	-100.0%	0	-
ONTARIO POWER SWAPS	OFM	0	8,090	-100.0%	0	-
ONTARIO POWER SWAPS	OPD	0	30	-100.0%	0	-
ONTARIO POWER SWAPS	OPM	0	205	-100.0%	0	-
PANHANDLE BASIS SWAP FUTU	PH	6,182	18,625	-66.8%	6,935	-10.9%
PANHANDLE INDEX SWAP FUTU	IV	0	0	-	0	-
PANHANDLE PIPE SWAP	XH	394	2,940	-86.6%	591	-33.3%
PERMIAN BASIS SWAP	PM	5,300	10,526	-49.6%	5,734	-7.6%
PETROCHEMICALS	22	306	44	595.5%	225	36.0%
PETROCHEMICALS	32	96	129	-25.6%	84	14.3%
PETROCHEMICALS	3NA	6	0	-	0	-
PETROCHEMICALS	51	3	0	-	3	0.0%
PETROCHEMICALS	8I	5,599	4,426	26.5%	5,648	-0.9%
PETROCHEMICALS	91	1,035	554	86.8%	897	15.4%
PETROCHEMICALS	HPE	0	0	-	0	-
PETROCHEMICALS	JKM	4,670	540	764.8%	2,975	57.0%
PETROCHEMICALS	LPE	0	0	-	0	-
PETROCHEMICALS	MAA	0	0	-	0	-
PETROCHEMICALS	MAC	0	0	-	0	-
PETROCHEMICALS	MAE	538	200	169.0%	398	35.2%



NYMEX/COMEX Exchange Open Interest Report - Monthly

Commodity	Open Interest OCT 2018	Open Interest OCT 2017	% CHG	Open Interest SEP 2018	% CHG	
Energy Futures						
PETROCHEMICALS	MAS	389	80	386.3%	494	-21.3%
PETROCHEMICALS	MBE	615	675	-8.9%	875	-29.7%
PETROCHEMICALS	MNB	3,772	3,608	4.5%	4,019	-6.1%
PETROCHEMICALS	MPS	360	20	1,700.0%	350	2.9%
PETRO CRCKS & SPRDS ASIA	JNC	0	150	-100.0%	0	-
PETRO CRCKS & SPRDS ASIA	STI	0	20	-100.0%	0	-
PETRO CRCKS & SPRDS ASIA	STR	0	0	-	0	-
PETRO CRCKS & SPRDS ASIA	STS	501	435	15.2%	636	-21.2%
PETRO CRCKS & SPRDS NA	CRB	7,020	959	632.0%	6,295	11.5%
PETRO CRCKS & SPRDS NA	EXR	3,831	3,265	17.3%	3,750	2.2%
PETRO CRCKS & SPRDS NA	FOC	1,250	1,130	10.6%	1,450	-13.8%
PETRO CRCKS & SPRDS NA	GBB	975	2,505	-61.1%	975	0.0%
PETRO CRCKS & SPRDS NA	GCC	315	375	-16.0%	340	-7.4%
PETRO CRCKS & SPRDS NA	GCI	2,670	3,260	-18.1%	3,281	-18.6%
PETRO CRCKS & SPRDS NA	GCM	21	17	23.5%	21	0.0%
PETRO CRCKS & SPRDS NA	GCU	21,354	16,068	32.9%	24,299	-12.1%
PETRO CRCKS & SPRDS NA	GFC	0	0	-	0	-
PETRO CRCKS & SPRDS NA	HOB	4,901	14,870	-67.0%	5,481	-10.6%
PETRO CRCKS & SPRDS NA	KSD	0	0	-	0	-
PETRO CRCKS & SPRDS NA	MFR	0	0	-	0	-
PETRO CRCKS & SPRDS NA	NFG	0	0	-	0	-
PETRO CRCKS & SPRDS NA	NYF	0	375	-100.0%	0	-
PETRO CRCKS & SPRDS NA	NYH	0	0	-	0	-
PETRO CRCKS & SPRDS NA	RBB	12,444	16,580	-24.9%	14,099	-11.7%
PETRO CRCKS & SPRDS NA	RVG	19,392	15,768	23.0%	17,693	9.6%
PETRO CRCKS & SPRDS NA	SF3	45	9	400.0%	45	0.0%
PETRO CRK&SPRD EURO	1NB	2,442	2,463	-0.9%	3,547	-31.2%
PETRO CRK&SPRD EURO	1ND	0	425	-100.0%	0	-
PETRO CRK&SPRD EURO	43	45	401	-88.8%	372	-87.9%
PETRO CRK&SPRD EURO	BFR	0	0	-	0	-
PETRO CRK&SPRD EURO	BOB	4,139	4,131	0.2%	4,273	-3.1%
PETRO CRK&SPRD EURO	EGB	0	0	-	0	-
PETRO CRK&SPRD EURO	EGN	0	0	-	0	-
PETRO CRK&SPRD EURO	EOB	61	24	154.2%	63	-3.2%
PETRO CRK&SPRD EURO	EPN	2,041	967	111.1%	1,562	30.7%
PETRO CRK&SPRD EURO	EVC	4,582	5,917	-22.6%	4,921	-6.9%
PETRO CRK&SPRD EURO	FBT	0	0	-	0	-
PETRO CRK&SPRD EURO	FVB	30	0	-	30	0.0%
PETRO CRK&SPRD EURO	GCB	0	0	-	0	-
PETRO CRK&SPRD EURO	GOC	24	54	-55.6%	24	0.0%
PETRO CRK&SPRD EURO	MGB	30	0	-	30	0.0%
PETRO CRK&SPRD EURO	MUD	89	290	-69.3%	114	-21.9%
PETRO CRK&SPRD EURO	NBB	20	0	-	10	100.0%
PETRO CRK&SPRD EURO	NOB	3,049	2,009	51.8%	2,341	30.2%
PETRO CRK&SPRD EURO	SFB	0	0	-	0	-
PETROLEUM PRODUCTS	D46	0	0	-	0	-
PETROLEUM PRODUCTS	EWB	0	0	-	0	-
PETROLEUM PRODUCTS	EWG	9,633	4,990	93.0%	7,953	21.1%
PETROLEUM PRODUCTS	MBS	0	0	-	0	-
PETROLEUM PRODUCTS	MGS	0	0	-	0	-
PETROLEUM PRODUCTS	MHE	0	0	-	0	-
PETROLEUM PRODUCTS	MME	0	0	-	0	-
PETROLEUM PRODUCTS	MPE	0	0	-	0	-

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NYMEX/COMEX Exchange Open Interest Report - Monthly

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Energy Futures						
PETROLEUM PRODUCTS	VU	0	190	-100.0%	0	-
PETROLEUM PRODUCTS ASIA	E6M	60	0	-	20	200.0%
PETROLEUM PRODUCTS ASIA	MJN	2,214	1,796	23.3%	2,046	8.2%
PETROLEUM PRODUCTS ASIA	MSB	0	0	-	0	-
PETRO OUTRIGHT EURO	0B	0	10	-100.0%	0	-
PETRO OUTRIGHT EURO	0C	0	20	-100.0%	20	-100.0%
PETRO OUTRIGHT EURO	0D	3,927	5,521	-28.9%	4,116	-4.6%
PETRO OUTRIGHT EURO	0E	0	56	-100.0%	40	-100.0%
PETRO OUTRIGHT EURO	0F	660	1,061	-37.8%	786	-16.0%
PETRO OUTRIGHT EURO	1T	33	54	-38.9%	36	-8.3%
PETRO OUTRIGHT EURO	33	0	36	-100.0%	0	-
PETRO OUTRIGHT EURO	5L	0	163	-100.0%	0	-
PETRO OUTRIGHT EURO	63	5	0	-	0	-
PETRO OUTRIGHT EURO	6L	0	0	-	0	-
PETRO OUTRIGHT EURO	7I	262	92	184.8%	317	-17.4%
PETRO OUTRIGHT EURO	7R	159	175	-9.1%	229	-30.6%
PETRO OUTRIGHT EURO	88	0	25	-100.0%	0	-
PETRO OUTRIGHT EURO	CBB	0	0	-	0	-
PETRO OUTRIGHT EURO	CGB	0	25	-100.0%	0	-
PETRO OUTRIGHT EURO	CPB	175	259	-32.4%	127	37.8%
PETRO OUTRIGHT EURO	EFF	48	20	140.0%	0	-
PETRO OUTRIGHT EURO	EFM	0	30	-100.0%	0	-
PETRO OUTRIGHT EURO	ENS	90	60	50.0%	110	-18.2%
PETRO OUTRIGHT EURO	ESB	0	0	-	0	-
PETRO OUTRIGHT EURO	EWN	1,354	1,157	17.0%	1,264	7.1%
PETRO OUTRIGHT EURO	FBD	0	0	-	0	-
PETRO OUTRIGHT EURO	FLB	0	0	-	5	-100.0%
PETRO OUTRIGHT EURO	GES	5	0	-	5	0.0%
PETRO OUTRIGHT EURO	MBB	0	50	-100.0%	100	-100.0%
PETRO OUTRIGHT EURO	MBN	2,865	2,614	9.6%	3,603	-20.5%
PETRO OUTRIGHT EURO	MEF	699	0	-	291	140.2%
PETRO OUTRIGHT EURO	SMU	264	0	-	277	-4.7%
PETRO OUTRIGHT EURO	T0	63	303	-79.2%	63	0.0%
PETRO OUTRIGHT EURO	ULB	0	0	-	0	-
PETRO OUTRIGHT EURO	V0	240	75	220.0%	320	-25.0%
PETRO OUTRIGHT EURO	W0	0	0	-	0	-
PETRO OUTRIGHT EURO	X0	116	0	-	116	0.0%
PETRO OUTRIGHT NA	FCB	64	223	-71.3%	152	-57.9%
PETRO OUTRIGHT NA	FOM	0	0	-	8	-100.0%
PETRO OUTRIGHT NA	GBA	0	0	-	0	-
PETRO OUTRIGHT NA	GUD	0	0	-	0	-
PETRO OUTRIGHT NA	JE	99	390	-74.6%	126	-21.4%
PETRO OUTRIGHT NA	JET	4,575	2,328	96.5%	4,875	-6.2%
PETRO OUTRIGHT NA	JTB	2,090	1,363	53.3%	650	221.5%
PETRO OUTRIGHT NA	MBL	30	130	-76.9%	30	0.0%
PETRO OUTRIGHT NA	MEN	316	368	-14.1%	410	-22.9%
PETRO OUTRIGHT NA	MEO	3,516	5,955	-41.0%	3,307	6.3%
PETRO OUTRIGHT NA	MFD	0	0	-	0	-
PETRO OUTRIGHT NA	MMF	130	113	15.0%	79	64.6%
PETRO OUTRIGHT NA	NYT	0	0	-	0	-
PETRO OUTRIGHT NA	XER	0	0	-	0	-
PJM AD HUB 5MW REAL TIME	V3	227,517	408,170	-44.3%	236,917	-4.0%
PJM AD HUB 5MW REAL TIME	Z9	19,893	24,445	-18.6%	20,675	-3.8%



NYMEX/COMEX Exchange Open Interest Report - Monthly

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Energy Futures						
PJM AECO DA OFF-PEAK	X1	0	0	-	0	-
PJM AECO DA PEAK	Y1	0	0	-	0	-
PJM APS ZONE DA OFF-PEAK	W4	0	0	-	0	-
PJM APS ZONE DA PEAK	S4	0	0	-	0	-
PJM ATSI ELEC	MOD	0	43,130	-100.0%	0	-
PJM ATSI ELEC	MPD	0	2,330	-100.0%	0	-
PJM BGE DA OFF-PEAK	R3	2,370	24,920	-90.5%	3,202	-26.0%
PJM BGE DA PEAK	E3	128	1,360	-90.6%	166	-22.9%
PJM COMED 5MW D AH O PK	D9	5,925	29,405	-79.9%	8,005	-26.0%
PJM COMED 5MW D AH PK	D8	320	1,590	-79.9%	415	-22.9%
PJM DAILY	JD	822	796	3.3%	702	17.1%
PJM DAYTON DA OFF-PEAK	R7	73,512	143,003	-48.6%	76,592	-4.0%
PJM DAYTON DA PEAK	D7	5,620	11,286	-50.2%	6,145	-8.5%
PJM JCPL DA OFF-PEAK	F2	0	0	-	0	-
PJM JCPL DA PEAK	J2	0	0	-	0	-
PJM NI HUB 5MW REAL TIME	B3	13,579	35,895	-62.2%	15,626	-13.1%
PJM NI HUB 5MW REAL TIME	B6	193,281	853,398	-77.4%	241,785	-20.1%
PJM NILL DA OFF-PEAK	L3	178,624	671,942	-73.4%	196,334	-9.0%
PJM NILL DA PEAK	N3	11,045	34,111	-67.6%	12,200	-9.5%
PJM OFF-PEAK LMP SWAP FUT	JP	120	622	-80.7%	160	-25.0%
PJM PECO ZONE5MW PEAK CAL MO DAY AH	4N	0	0	-	0	-
PJM PPL DA OFF-PEAK	F5	0	0	-	0	-
PJM PPL DA PEAK	L5	0	0	-	0	-
PJM PSEG DA OFF-PEAK	W6	38,880	85,640	-54.6%	40,960	-5.1%
PJM PSEG DA PEAK	L6	1,275	3,400	-62.5%	1,275	0.0%
PJM WES HUB PEAK LMP 50 M	4S	0	0	-	0	-
PJM WESTH DA OFF-PEAK	E4	218,052	470,327	-53.6%	236,147	-7.7%
PJM WESTHDA PEAK	J4	11,734	26,080	-55.0%	12,721	-7.8%
PJM WESTH RT OFF-PEAK	N9	1,123,150	2,271,054	-50.5%	1,197,262	-6.2%
PJM WESTH RT PEAK	L1	67,455	121,676	-44.6%	77,617	-13.1%
PLASTICS	PGP	1,600	1,314	21.8%	809	97.8%
PREMIUM UNLND 10P FOB MED	3G	402	183	119.7%	486	-17.3%
PREMIUM UNLEAD 10PPM FOB	8G	0	0	-	35	-100.0%
PREM UNL GAS 10PPM RDAM FOB BALMO	7N	0	0	-	0	-
PREM UNL GAS 10PPM RDAM FOB SWAP	7L	201	0	-	256	-21.5%
PROPANE NON-LDH MB (OPIS) BALMO SWP	1S	170	63	169.8%	596	-71.5%
PROPANE NON-LDH MT. BEL (OPIS) SWP	1R	61,370	25,116	144.3%	59,465	3.2%
RBOB CALENDAR SWAP	RL	20,140	16,136	24.8%	16,926	19.0%
RBOB CRACK SPREAD	RM	4,895	6,343	-22.8%	5,388	-9.1%
RBOB CRACK SPREAD BALMO S	1E	0	0	-	0	-
RBOB GASOLINE BALMO CLNDR	1D	530	2,176	-75.6%	1,252	-57.7%
RBOB PHY	RBL	0	0	0.0%	0	0.0%
RBOB (PLATTS) CAL SWAP	RY	0	0	-	0	-
RBOB SPREAD (PLATTS) SWAP	RI	0	7	-100.0%	0	-
RBOB UP-DOWN CALENDAR SWA	RV	0	0	-	0	-
RBOB VS HEATING OIL SWAP	RH	165	2,642	-93.8%	420	-60.7%
ROCKIES KERN OPAL - NW IN	IR	0	0	-	0	-
SAN JUAN BASIS SWAP	NJ	9,542	21,864	-56.4%	10,853	-12.1%
SAN JUAN PIPE SWAP	XX	360	0	-	360	0.0%
SINGAPORE 180CST BALMO	BS	20	38	-47.4%	5	300.0%
SINGAPORE 380CST BALMO	BT	246	127	93.7%	132	86.4%
SINGAPORE 380CST FUEL OIL	SE	10,269	11,159	-8.0%	10,943	-6.2%
SINGAPORE FUEL 180CST CAL	UA	693	1,352	-48.7%	867	-20.1%

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NYMEX/COMEX Exchange Open Interest Report - Monthly

Commodity	Open Interest OCT 2018	Open Interest OCT 2017	% CHG	Open Interest SEP 2018	% CHG	
Energy Futures						
SINGAPORE FUEL OIL SPREAD	SD	789	1,357	-41.9%	910	-13.3%
SINGAPORE GASOIL	MAF	918	0	-	499	84.0%
SINGAPORE GASOIL	MTB	15	112	-86.6%	15	0.0%
SINGAPORE GASOIL	MTS	7,318	8,026	-8.8%	6,774	8.0%
SINGAPORE GASOIL	STL	0	0	-	0	-
SINGAPORE GASOIL	STZ	450	150	200.0%	1,150	-60.9%
SINGAPORE GASOIL CALENDAR	GDH	0	0	-	0	-
SINGAPORE GASOIL CALENDAR	GDL	0	0	-	0	-
SINGAPORE GASOIL CALENDAR	GHS	0	0	-	0	-
SINGAPORE GASOIL CALENDAR	MGO	0	0	-	0	-
SINGAPORE GASOIL CALENDAR	MSG	313	359	-12.8%	173	80.9%
SINGAPORE GASOIL CALENDAR	SGG	0	0	-	0	-
SINGAPORE GASOIL SWAP	SG	7,305	15,809	-53.8%	9,275	-21.2%
SINGAPORE GASOIL VS ICE	GA	39,241	6,815	475.8%	41,626	-5.7%
SINGAPORE JET KERO BALMO	BX	0	0	-	0	-
SINGAPORE JET KERO GASOIL	RK	9,885	2,640	274.4%	11,310	-12.6%
SINGAPORE JET KEROSENE SW	KS	4,475	2,686	66.6%	4,230	5.8%
SINGAPORE JET KERO VS. GASOIL BALMO	Z0	0	0	-	0	-
SINGAPORE MOGAS 92 UNLEADED BALMO	1P	375	266	41.0%	370	1.4%
SINGAPORE MOGAS 92 UNLEADED SWP	1N	15,690	11,144	40.8%	14,890	5.4%
SINGAPORE NAPHTHA BALMO	KU	0	0	-	0	-
SINGAPORE NAPHTHA SWAP	SP	0	0	-	0	-
SING FUEL	MSD	5	0	-	0	-
SOCAL PIPE SWAP	XN	0	0	-	0	-
SONAT BASIS SWAP FUTURE	SZ	0	122	-100.0%	0	-
SOUTHERN NAT LA NAT GAS	M8	0	0	-	0	-
SOUTH STAR TEX OKLHM KNS	8Z	20	152	-86.8%	30	-33.3%
Sumas Basis Swap	NK	3,187	6,973	-54.3%	3,311	-3.7%
SUMAS NAT GAS PLATTS FIXED PRICE	DVS	0	122	-100.0%	0	-
TC2 ROTTERDAM TO USAC 37K	TM	329	0	-	229	43.7%
TC5 RAS TANURA TO YOKOHAM	TH	725	0	-	105	590.5%
TCO BASIS SWAP	TC	4,869	15,455	-68.5%	5,303	-8.2%
TCO NG INDEX SWAP	Q1	0	0	-	0	-
TD3 MEG TO JAPAN 250K MT	TL	5,861	30	19,436.7%	4,645	26.2%
TENN 800 LEG NAT GAS INDE	L4	0	0	-	0	-
TENNESSEE 500 LEG BASIS S	NM	0	0	-	0	-
TENNESSEE 800 LEG NG BASI	6Z	0	0	-	0	-
TENNESSEE ZONE 0 BASIS SW	NQ	0	604	-100.0%	0	-
TETCO M-3 INDEX	IX	0	868	-100.0%	0	-
Tetco STX Basis	TX	122	913	-86.6%	184	-33.7%
TEXAS EASTERN ZONE M-3 BA	NX	2,913	7,683	-62.1%	3,223	-9.6%
TEXAS GAS ZONE1 NG BASIS	9F	960	7,124	-86.5%	1,444	-33.5%
Transco Zone 3 Basis	CZ	549	4,258	-87.1%	828	-33.7%
TRANSCO ZONE 3 NG INDEX S	Y6	0	1,054	-100.0%	0	-
TRANSCO ZONE4 BASIS SWAP	TR	3,843	11,119	-65.4%	4,246	-9.5%
TRANSCO ZONE 4 NAT GAS IN	B2	0	0	-	0	-
TRANSCO ZONE 6 BASIS SWAP	NZ	302	2,681	-88.7%	581	-48.0%
TRANSCO ZONE 6 INDEX	IT	0	248	-100.0%	0	-
UCM FUT	UCM	0	69	-100.0%	0	-
ULSD 10PPM CIF MED BALMO	X7	0	0	-	0	-
ULSD 10PPM CIF MED SWAP	Z6	0	0	-	0	-
ULSD 10PPM CIF MED VS ICE	Z7	0	51	-100.0%	0	-
ULSD 10PPM CIF NW BALMO S	B1	0	0	-	0	-

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NYMEX/COMEX Exchange Open Interest Report - Monthly

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Energy Futures					
ULSD 10PPM CIF VS ICE GAS	7V	0	0	0	-
ULSD UP-DOWN BALMO SWP	1L	6,550	8,995	8,792	-25.5%
UP DOWN GC ULSD VS NMX HO	LT	45,003	54,459	43,144	4.3%
USGC UNL 87 CRACK SPREAD	RU	0	0	0	-
WAHA BASIS	NW	3,095	7,957	3,312	-6.6%
WAHA INDEX SWAP FUTURE	IY	0	0	0	-
WESTERN RAIL DELIVERY PRB	QP	120	345	240	-50.0%
WTI-BRENT BULLET SWAP	BY	6,504	404	6,704	-3.0%
WTI-BRENT CALENDAR SWAP	BK	134,191	67,725	135,642	-1.1%
WTI CALENDAR	CS	180,676	146,655	174,912	3.3%
WTS (ARGUS) VS WTI SWAP	FF	60,714	47,666	61,503	-1.3%
WTS (ARGUS) VS WTI TRD MT	FH	5,353	5,338	5,258	1.8%
Energy Options					
12 MO GASOIL CAL SWAP SPR	GXZ	0	630	0	-100.0%
1 MO GASOIL CAL SWAP SPR	GXA	0	0	0	-
BRENT 1 MONTH CAL	AA	0	0	0	-
BRENT CALENDAR SWAP	BA	10,560	6,318	6,711	57.4%
BRENT CRUDE OIL 12 M CSO	9Y	0	0	0	-
BRENT CRUDE OIL 1 M CSO	9C	38,300	0	55,702	-31.2%
BRENT CRUDE OIL 6 M CSO	9L	0	0	0	-
BRENT OIL LAST DAY	BE	38,324	11,842	105,339	-63.6%
BRENT OIL LAST DAY	BZO	186,092	99,325	242,084	-23.1%
BRENT OIL LAST DAY	OS	150	1,596	1,222	-87.7%
COAL API2 INDEX	CLA	3,810	5,669	3,770	1.1%
COAL API2 INDEX	CQA	925	145	900	2.8%
COAL API2 INDEX	MTC	0	0	0	-
COAL API4 INDEX	RLA	25	0	25	0.0%
COAL API4 INDEX	RQA	0	0	0	-
COAL SWAP	CPF	0	40	0	-100.0%
COAL SWAP	RPF	0	520	0	-100.0%
CRUDE OIL 1MO	WA	330,810	479,814	283,105	16.9%
CRUDE OIL APO	AO	350,831	376,410	383,939	-8.6%
CRUDE OIL CALNDR STRIP	6F	170	0	170	0.0%
CRUDE OIL OUTRIGHTS	AH	6,000	150	0	3,900.0%
CRUDE OIL OUTRIGHTS	DBP	0	0	0	-
CRUDE OIL OUTRIGHTS	WCI	1,060	8,170	1,340	-87.0%
CRUDE OIL PHY	CD	0	0	0	0.0%
CRUDE OIL PHY	LC	51,461	61,773	39,285	-16.7%
CRUDE OIL PHY	LO	3,165,231	3,073,824	2,969,257	6.6%
CRUDE OIL PHY	LO1	5,793	5,279	2,739	111.5%
CRUDE OIL PHY	LO2	1,170	1,632	289	-28.3%
CRUDE OIL PHY	LO3	52	695	88	-92.5%
CRUDE OIL PHY	LO4	95	177	0	-46.3%
CRUDE OIL PHY	LO5	0	0	0	-
ELEC FINSETTLED	PML	0	0	0	-
ELEC MISO PEAK	9T	0	0	0	-
ETHANOL	CE1	0	0	0	-
ETHANOL	CE3	0	0	0	-
ETHANOL SWAP	CVR	6,231	12,669	6,389	-50.8%
ETHANOL SWAP	GVR	2,313	2,177	2,724	-15.1%
EURO-DENOMINATED PETRO PROD	NWE	0	0	0	-
EUROPEAN JET KEROSENE NWE (PLATTS) AVG PRC	30	0	0	0	-



NYMEX/COMEX Exchange Open Interest Report - Monthly

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Energy Options						
GASOLINE	GCE	0	0	-	0	-
HEATING OIL CRACK OPTIONS	CH	0	100	-100.0%	0	-
HEATING OIL CRK SPD AVG PRICE OPTIONS	3W	0	0	-	0	-
HEATING OIL PHY	LB	416	379	9.8%	250	66.4%
HEATING OIL PHY	OH	45,528	69,956	-34.9%	37,030	22.9%
HENRY HUB FINANCIAL LAST	E7	5,262	7,184	-26.8%	5,437	-3.2%
HO 1 MONTH CLNDR OPTIONS	FA	100	100	0.0%	0	-
HUSTN SHIP CHNL PIPE SWP	PK	0	0	-	0	-
LLS CRUDE OIL	WJO	600	2,950	-79.7%	900	-33.3%
LLS CRUDE OIL	YVO	0	3,250	-100.0%	0	-
MCCLOSKEY ARA ARGS COAL	MTO	90	860	-89.5%	215	-58.1%
MCCLOSKEY RCH BAY COAL	MFO	270	0	-	450	-40.0%
NATURAL GAS	G10	0	0	-	0	-
NATURAL GAS 1 M CSO FIN	G4	81,730	120,684	-32.3%	62,120	31.6%
NATURAL GAS 2 M CSO FIN	G2	0	5,050	-100.0%	0	-
NATURAL GAS 3 M CSO FIN	G3	0	1,000	-100.0%	0	-
NATURAL GAS 5 M CSO FIN	G5	0	0	-	0	-
NATURAL GAS 6 M CSO FIN	G6	13,300	11,200	18.8%	11,350	17.2%
NATURAL GAS OPTION ON CALENDAR STRP	6J	14,342	10,870	31.9%	12,822	11.9%
NATURAL GAS PHY	KD	0	0	0.0%	0	0.0%
NATURAL GAS PHY	LN	2,188,155	2,158,881	1.4%	1,890,570	15.7%
NATURAL GAS PHY	ON	202,895	102,629	97.7%	148,389	36.7%
NATURAL GAS PHY	ON1	0	0	-	0	-
NATURAL GAS WINTER STRIP	6I	0	0	-	1,700	-100.0%
NG HH 3 MONTH CAL	IC	0	0	-	0	-
N ROCKIES PIPE SWAP	ZR	2,986	6,754	-55.8%	2,986	0.0%
NY HARBOR HEAT OIL SWP	AT	14,747	19,045	-22.6%	14,759	-0.1%
NYISO ZONE G 5MW PEAK OPTIONS	9U	0	5,880	-100.0%	0	-
NYMEX EUROPEAN GASOIL APO	F7	0	0	-	0	-
NYMEX EUROPEAN GASOIL OPT	F8	0	0	-	0	-
PANHANDLE PIPE SWAP	PU	960	7,680	-87.5%	1,440	-33.3%
PETROCHEMICALS	4H	5,337	6,050	-11.8%	4,098	30.2%
PETROCHEMICALS	4J	1,155	1,925	-40.0%	1,240	-6.9%
PETROCHEMICALS	4K	1,650	700	135.7%	1,650	0.0%
PETROCHEMICALS	CPR	0	18	-100.0%	0	-
PETRO OUTRIGHT EURO	8H	0	150	-100.0%	0	-
PETRO OUTRIGHT NA	DAP	210	0	-	216	-2.8%
PJM MONTHLY	JO	0	0	-	0	-
PJM WES HUB PEAK CAL MTH	6OA	2,030	3,420	-40.6%	1,780	14.0%
PJM WES HUB PEAK CAL MTH	JOA	0	0	-	0	-
PJM WES HUB PEAK LMP 50MW	PMA	3,895	15,908	-75.5%	5,113	-23.8%
RBOB 1MO CAL SPD OPTIONS	ZA	0	1,100	-100.0%	0	-
RBOB CALENDAR SWAP	RA	385	1,074	-64.2%	425	-9.4%
RBOB CRACK	RX	2	0	-	0	-
RBOB PHY	OB	12,039	17,395	-30.8%	8,307	44.9%
RBOB PHY	RF	0	275	-100.0%	0	-
ROTTERDAM 3.5%FUEL OIL CL	Q6	0	120	-100.0%	0	-
SAN JUAN PIPE SWAP	PJ	2,527	5,636	-55.2%	2,496	1.2%
SHORT TERM	C15	0	0	-	0	-
SHORT TERM	U11	0	0	-	0	-
SHORT TERM	U12	0	0	-	0	-
SHORT TERM	U13	0	0	-	0	-
SHORT TERM	U14	0	0	-	0	-

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NYMEX/COMEX Exchange Open Interest Report - Monthly

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Energy Options						
SHORT TERM	U15	0	0	-	0	-
SHORT TERM	U22	0	0	-	0	-
SHORT TERM	U23	0	0	-	0	-
SHORT TERM	U24	0	0	-	0	-
SHORT TERM	U25	0	0	-	0	-
SHORT TERM	U26	0	0	-	0	-
SHORT TERM NATURAL GAS	U01	0	0	-	200	-100.0%
SHORT TERM NATURAL GAS	U02	1,350	0	-	0	-
SHORT TERM NATURAL GAS	U03	0	0	-	0	-
SHORT TERM NATURAL GAS	U04	0	0	-	0	-
SHORT TERM NATURAL GAS	U05	0	0	-	0	-
SHORT TERM NATURAL GAS	U06	0	0	-	0	-
SHORT TERM NATURAL GAS	U07	0	0	-	0	-
SHORT TERM NATURAL GAS	U08	0	0	-	0	-
SHORT TERM NATURAL GAS	U09	0	0	-	0	-
SHORT TERM NATURAL GAS	U10	0	0	-	0	-
SHORT TERM NATURAL GAS	U16	0	0	-	0	-
SHORT TERM NATURAL GAS	U17	0	0	-	0	-
SHORT TERM NATURAL GAS	U18	0	0	-	0	-
SHORT TERM NATURAL GAS	U19	0	0	-	0	-
SHORT TERM NATURAL GAS	U20	0	0	-	0	-
SHORT TERM NATURAL GAS	U21	0	0	-	0	-
SHORT TERM NATURAL GAS	U27	0	0	-	0	-
SHORT TERM NATURAL GAS	U28	0	0	-	0	-
SHORT TERM NATURAL GAS	U29	0	0	-	0	-
SHORT TERM NATURAL GAS	U30	0	0	-	0	-
SHORT TERM NATURAL GAS	U31	0	0	0.0%	0	-
SINGAPORE GASOIL CALENDAR	M2	0	75	-100.0%	0	-
SINGAPORE JET FUEL CALENDAR	N2	0	120	-100.0%	0	-
SOCAL PIPE SWAP	ZN	0	0	-	0	-
WTI-BRENT BULLET SWAP	BV	90,814	200,363	-54.7%	199,171	-54.4%
WTI CRUDE OIL 1 M CSO FI	7A	141,975	258,669	-45.1%	110,475	28.5%
Metals Futures						
COMEX GOLD	GC	492,606	532,783	-7.5%	457,853	7.6%
NYMEX HOT ROLLED STEEL	HR	18,075	13,110	37.9%	14,456	25.0%
NYMEX PLATINUM	PL	75,566	77,877	-3.0%	71,308	6.0%
PALLADIUM	PA	27,454	34,083	-19.4%	23,288	17.9%
URANIUM	UX	4,670	4,227	10.5%	4,077	14.5%
COMEX SILVER	SI	211,879	198,775	6.6%	204,131	3.8%
COMEX E-Mini GOLD	QO	2,430	891	172.7%	3,029	-19.8%
COMEX E-Mini SILVER	QI	276	105	162.9%	264	4.5%
COMEX COPPER	HG	259,850	300,174	-13.4%	238,539	8.9%
COMEX MINY COPPER	QC	48	305	-84.3%	33	45.5%
ALUMINUM	A38	72	0	-	0	-
ALUMINUM	AEP	11,021	14,699	-25.0%	10,453	5.4%
ALUMINUM	ALA	2,000	3,730	-46.4%	2,460	-18.7%
ALUMINUM	ALI	0	62	-100.0%	0	-
ALUMINUM	AUP	30,943	26,811	15.4%	28,414	8.9%
ALUMINUM	CUP	0	0	-	20	-100.0%
ALUMINUM	EDP	11,079	10,373	6.8%	9,174	20.8%
ALUMINUM	MJP	8,760	8,374	4.6%	8,074	8.5%



NYMEX/COMEX Exchange Open Interest Report - Monthly

Commodity	Open Interest OCT 2018	Open Interest OCT 2017	% CHG	Open Interest SEP 2018	% CHG
Metals Futures					
COPPER	12,980	863	1,404.1%	11,446	13.4%
E-MICRO GOLD	14,150	8,813	60.6%	14,748	-4.1%
FERROUS PRODUCTS	3,988	680	486.5%	3,016	32.2%
GOLD	0	0	-	0	-
Gold Kilo	0	32	-100.0%	0	-
IRON ORE 62 CHINA PLATTS FUTURES	240	3,130	-92.3%	320	-25.0%
IRON ORE 62 CHINA TSI FUTURES	8,800	12,795	-31.2%	8,979	-2.0%
LNDN ZINC	42	30	40.0%	17	147.1%
METALS	0	0	-	0	-
SILVER	2,274	1,531	48.5%	1,462	55.5%
Metals Options					
COMEX COPPER	30,540	12,218	150.0%	23,145	32.0%
COMEX GOLD	1,369,304	1,045,632	31.0%	1,289,414	6.2%
COMEX SILVER	245,758	126,957	93.6%	226,174	8.7%
COPPER	12	0	-	6	100.0%
COPPER	5	0	-	0	-
COPPER	0	0	-	0	-
COPPER	0	0	-	0	0.0%
COPPER	0	0	-	0	-
GOLD	5,927	4,040	46.7%	3,748	58.1%
GOLD	5,462	1,410	287.4%	1,789	205.3%
GOLD	1,355	515	163.1%	134	911.2%
GOLD	80	151	-47.0%	0	0.0%
GOLD	0	0	-	0	-
HOT ROLLED COIL STEEL CALL OPTION	300	330	-9.1%	300	0.0%
IRON ORE 62 CHINA TSI CALL OPTION	766	8,756	-91.3%	996	-23.1%
IRON ORE 62 CHINA TSI PUT OPTION	90	7,160	-98.7%	220	-59.1%
NYMEX PLATINUM	5,980	3,496	71.1%	5,354	11.7%
PALLADIUM	2,150	5,640	-61.9%	2,042	5.3%
SILVER	445	11	3,945.5%	480	-7.3%
SILVER	428	16	2,575.0%	62	590.3%
SILVER	118	0	-	51	131.4%
SILVER	58	0	-	0	0.0%
SILVER	0	0	-	0	-
TOTAL FUTURES GROUP					
Ag Products Futures	2	4	-50.0%	1	100.0%
Energy Futures	12,564,930	17,011,087	-26.1%	13,113,998	-4.2%
Metals Futures	1,199,203	1,254,253	-4.4%	1,115,561	7.5%
TOTAL FUTURES	13,764,135	18,265,344	-24.6%	14,229,560	-3.3%



NYMEX/COMEX Exchange Open Interest Report - Monthly

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TOTAL OPTIONS GROUP					
Energy Options	7,034,153	7,196,305	-2.3%	6,630,667	6.1%
Metals Options	1,668,778	1,216,332	37.2%	1,553,915	7.4%
TOTAL OPTIONS	8,702,931	8,412,637	3.5%	8,184,582	6.3%
TOTAL COMBINED					
Ag Products	2	4	-50.0%	1	100.0%
Energy	19,599,083	24,207,392	-19.0%	19,744,665	-0.7%
Metals	2,867,981	2,470,585	16.1%	2,669,476	7.4%
GRAND TOTAL	22,467,066	26,677,981	-15.8%	22,414,142	0.2%