

## NYMEX/COMEX Exchange Open Interest Report - Monthly

	Commodity	Open Interest MAY 2019	Open Interest MAY 2018	% CHG	Open Interest APR 2019	% CHG
Ag Products Futures						
COCOA TAS	CJ	0	1	-100.0%	0	-
COFFEE	KT	0	0	-	0	-
COTTON	TT	0	0	-	0	-
SUGAR 11	YO	0	58	-100.0%	0	-
Energy Futures						
CRUDE OIL PHY	CL	2,090,720	2,644,087	-20.9%	2,158,052	-3.1%
CRUDE OIL	WS	286	1,572	-81.8%	286	0.0%
MINY WTI CRUDE OIL	QM	6,185	5,116	20.9%	3,597	71.9%
BRENT OIL LAST DAY	BZ	254,188	227,528	11.7%	229,864	10.6%
HEATING OIL PHY	HO	403,637	415,713	-2.9%	399,884	0.9%
HTG OIL	BH	150	222	-32.4%	163	-8.0%
MINY HTG OIL	QH	0	0	-	1	-100.0%
RBOB PHY	RB	367,281	480,931	-23.6%	421,435	-12.8%
MINY RBOB GAS	QU	0	0	-	0	0.0%
NATURAL GAS	HP	82,052	83,815	-2.1%	80,535	1.9%
LTD NAT GAS	HH	362,375	393,983	-8.0%	373,779	-3.1%
MINY NATURAL GAS	QG	2,536	1,019	148.9%	3,651	-30.5%
PJM MONTHLY	JM	320	1,160	-72.4%	360	-11.1%
NATURAL GAS PHY	NG	1,309,821	1,534,433	-14.6%	1,244,433	5.3%
RBOB GAS	RT	108	1,379	-92.2%	116	-6.9%
3.5% FUEL OIL CID MED SWA	7D	96	321	-70.1%	46	108.7%
3.5% FUEL OIL CIF BALMO S	8D	0	5	-100.0%	0	-
AEP-DAYTON HUB DAILY	VD	28	92	-69.6%	34	-17.6%
AEP-DAYTON HUB MTHLY	VM	0	0	-	0	-
AEP-DAYTON HUB OFF-PEAK M	VP	0	0	-	0	-
ALGON CITY GATES NAT GAS	N7	0	0	-	0	-
ALGONQUIN CITYGATES BASIS	B4	0	0	-	0	-
ANR LOUISIANA BASIS SWAP	ND	0	0	-	0	-
ANR OKLAHOMA	NE	0	1,128	-100.0%	0	-
ARGUS LLS VS. WTI (ARG) T	E5	29,133	49,286	-40.9%	30,836	-5.5%
ARGUS PROPAN FAR EST INDE	7E	5,351	5,317	0.6%	5,585	-4.2%
ARGUS PROPAN(SAUDI ARAMCO	9N	2,034	1,855	9.6%	2,236	-9.0%
AUSTRIALIAN COKE COAL	ACT	0	0	-	0	-
AUSTRIALIAN COKE COAL	ALW	32	240	-86.7%	36	-11.1%
BRENT BALMO SWAP	J9	0	0	-	365	-100.0%
BRENT CALENDAR SWAP	CY	26,150	20,033	30.5%	20,213	29.4%
BRENT CFD SWAP	6W	0	0	-	0	-
BRENT FINANCIAL FUTURES	BB	158	3,798	-95.8%	3,658	-95.7%
BRENT FINANCIAL FUTURES	MBC	82	0	-	60	36.7%
BRENT FINANCIAL FUTURES	MDB	0	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	0	42	-100.0%	0	-
CENTERPOINT BASIS SWAP	PW	687	6,357	-89.2%	796	-13.7%
CHICAGO ETHANOL SWAP	CU	48,404	57,005	-15.1%	50,072	-3.3%
CHICAGO ULSD (PLATTS) SWA	4C	0	0	-	0	-
CHICAGO ULSD PL VS HO SPR	5C	3,193	847	277.0%	2,902	10.0%
CHICAGO UNL GAS PL VS RBO	3C	553	525	5.3%	690	-19.9%

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Energy Futures						
CIG BASIS	CI	3,912	16,328	-76.0%	4,482	-12.7%
CIG ROCKIES NG INDEX SWA	Z8	0	0	-	0	-
CINERGY HUB OFF-PEAK MONT	EJ	0	80	-100.0%	0	-
CINERGY HUB PEAK MONTH	EM	0	192	-100.0%	0	-
CIN HUB 5MW D AH O PK	K2	0	83,440	-100.0%	0	-
CIN HUB 5MW D AH PK	H5	1,057	7,206	-85.3%	1,055	0.2%
CIN HUB 5MW REAL TIME O P	H4	101,904	343,464	-70.3%	111,704	-8.8%
CIN HUB 5MW REAL TIME PK	H3	11,419	29,383	-61.1%	13,069	-12.6%
COAL SWAP	ACM	0	105	-100.0%	0	-
COAL SWAP	SSI	0	0	-	0	-
COLUMB GULF MAINLINE NG B	5Z	954	2,326	-59.0%	1,009	-5.5%
COLUMBIA GULF ONSHORE	GL	0	0	-	0	-
CONWAY NATURAL GASOLINE (OPIS) SWAP	8L	1,326	1,173	13.0%	1,427	-7.1%
CONWAY NORMAL BUTANE (OPIS) SWAP	8M	912	843	8.2%	804	13.4%
CONWAY PROPANE 5 DECIMALS SWAP	8K	20,857	22,829	-8.6%	19,994	4.3%
CRUDE OIL	LPS	20,025	17,700	13.1%	21,025	-4.8%
CRUDE OIL OUTRIGHTS	42	490	236	107.6%	492	-0.4%
CRUDE OIL OUTRIGHTS	CC5	960	0	-	990	-3.0%
CRUDE OIL OUTRIGHTS	CPD	0	100	-100.0%	0	-
CRUDE OIL OUTRIGHTS	CSN	0	0	-	0	-
CRUDE OIL OUTRIGHTS	CSW	2,700	0	-	2,725	-0.9%
CRUDE OIL OUTRIGHTS	DBL	0	59	-100.0%	0	-
CRUDE OIL OUTRIGHTS	FE	0	0	-	0	-
CRUDE OIL OUTRIGHTS	GSW	207	0	-	230	-10.0%
CRUDE OIL OUTRIGHTS	HTT	144,091	117,588	22.5%	137,584	4.7%
CRUDE OIL OUTRIGHTS	LSW	1,653	1,065	55.2%	1,813	-8.8%
CRUDE OIL OUTRIGHTS	SSW	0	0	-	0	-
CRUDE OIL OUTRIGHTS	UMD	0	900	-100.0%	0	-
CRUDE OIL OUTRIGHTS	UNS	0	1,500	-100.0%	0	-
CRUDE OIL OUTRIGHTS	WCC	0	960	-100.0%	0	-
CRUDE OIL OUTRIGHTS	WCW	15,445	22,023	-29.9%	17,160	-10.0%
CRUDE OIL PHY	CLL	0	0	0.0%	0	0.0%
CRUDE OIL PHY	HCL	4,884	0	-	1,437	239.9%
CRUDE OIL SPRDS	38	0	1,740	-100.0%	0	-
CRUDE OIL SPRDS	HIL	720	0	-	0	-
CRUDE OIL SPRDS	WTT	123,616	180,041	-31.3%	119,790	3.2%
CRUDE OIL TRADE AT MARKER SINGAPORE	CLS	0	0	0.0%	0	0.0%
DAILY PJM	AOR	3,840	3,720	3.2%	3,264	17.6%
DAILY PJM	IDO	11,776	15,872	-25.8%	15,000	-21.5%
DAILY PJM	NOC	2,280	13,680	-83.3%	1,824	25.0%
DAILY PJM	PAP	250	615	-59.3%	270	-7.4%
DAILY PJM	PEO	2,560	5,424	-52.8%	2,400	6.7%
DAILY PJM	PNO	17,408	33,280	-47.7%	16,320	6.7%
DAILY PJM	PNP	975	1,742	-44.0%	1,053	-7.4%
DAILY PJM	PWO	16,384	24,208	-32.3%	15,360	6.7%
DAILY PJM	PWP	800	1,262	-36.6%	864	-7.4%
DAILY PJM	WOR	14,160	20,280	-30.2%	11,328	25.0%
DAILY PJM	ZAO	1,024	6,944	-85.3%	2,104	-51.3%
DAILY PJM	ZGO	27,136	28,272	-4.0%	26,760	1.4%
DAILY PJM	ZJO	15,360	12,400	23.9%	14,400	6.7%
DATED BRENT (PLATTS) DAILY SWAP	7G	0	0	-	0	-
DATED TO FRONTLINE BRENT	FY	1,985	5,745	-65.4%	2,180	-8.9%
DIESEL 10P BRG FOB RDM VS	7X	0	0	-	0	-

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<b>Energy Futures</b>						
DIESEL 10PPM BARGES FOB B	U7	0	0	-	0	-
DOMINION TRAN INC - APP I	IH	0	1,960	-100.0%	0	-
DOMINION TRANSMISSION INC	PG	7,422	21,403	-65.3%	8,042	-7.7%
DUBAI CRUDE OIL BALMO	BI	0	0	-	0	-
DUBAI CRUDE OIL CALENDAR	DC	3,885	3,287	18.2%	4,307	-9.8%
DUTCH TTF NATURAL GAS CAL MONTH FUT	TTF	2,520	135	1,766.7%	2,076	21.4%
DY EURO 3.5% FUEL OI RDA	FOR	0	0	-	0	-
EASTERN RAIL DELIVERY CSX	QX	0	240	-100.0%	0	-
EAST/WEST FUEL OIL SPREAD	EW	35	117	-70.1%	39	-10.3%
EIA FLAT TAX ONHWAY DIESE	A5	1,589	1,828	-13.1%	1,468	8.2%
ELEC ERCOT DLY OFF PK	I4	0	6,000	-100.0%	0	-
ELEC ERCOT DLY PEAK	I3	0	0	-	0	-
ELEC ERCOT DLY PEAK	I7	0	180	-100.0%	0	-
ELEC ERCOT OFF PEAK	I2	0	0	-	0	-
ELEC FINSETTLED	47	854	1,364	-37.4%	898	-4.9%
ELEC FINSETTLED	49	0	0	-	0	-
ELEC MISO PEAK	4L	0	2,550	-100.0%	0	-
ELEC MISO PEAK	55	0	0	-	0	-
ELEC NYISO OFF-PEAK	4M	0	47,415	-100.0%	0	-
ELEC NYISO OFF-PEAK	58	0	0	-	0	-
ELECTRICITY ERCOT PEAK	ERE	0	0	-	0	-
ELECTRICITY OFF PEAK	46	15,666	25,026	-37.4%	16,402	-4.5%
ELECTRICITY OFF PEAK	4P	55,380	0	-	55,380	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	-
ERCOT DAILY 5MW PEAK	ERW	0	0	-	0	-
ERCOT HOUSTON Z MCPE 5MW PEAK SWAP	I1	0	2,200	-100.0%	0	-
ERCOT NORTH ZMCPE 5MW OFFPEAK	I8	0	6,000	-100.0%	0	-
ERCOT NORTH ZMCPE 5MW OFFPEAK SWAP	I6	0	110,880	-100.0%	0	-
ERCOT NORTH ZMCPE 5MW PEAK	I5	0	6,300	-100.0%	0	-
ETHANOL	MTH	0	0	-	30	-100.0%
ETHANOL	Z1B	0	0	-	0	-
ETHANOL SWAP	MT2	510	10	5,000.0%	470	8.5%
ETHANOL T2 FOB ROTT INCL DUTY SWAP	Z1	4,426	5,002	-11.5%	4,646	-4.7%
EURO 1% FUEL OIL NEW BALM	KX	3	15	-80.0%	0	-
EURO 3.5% FUEL OIL RDAM B	KR	40	860	-95.3%	38	5.3%
EURO 3.5% FUEL OIL SPREAD	FK	80	326	-75.5%	85	-5.9%
EURO-DENOMINATED PETRO PROD	NCP	0	0	-	0	-
EURO GASOIL 10PPM VS ICE	ET	0	352	-100.0%	0	-
EUROPE 1% FUEL OIL NWE CA	UF	402	230	74.8%	242	66.1%
EUROPE 1% FUEL OIL RDAM C	UH	3	3	0.0%	3	0.0%
EUROPE 3.5% FUEL OIL MED	UI	133	365	-63.6%	125	6.4%
EUROPE 3.5% FUEL OIL RDAM	UV	6,401	14,764	-56.6%	6,761	-5.3%
EUROPEAN GASOIL (ICE)	7F	48	152	-68.4%	100	-52.0%
EUROPEAN NAPHTHA BALMO	KZ	110	231	-52.4%	128	-14.1%
EUROPEAN NAPHTHA CRACK SPR	EN	10,905	14,716	-25.9%	12,534	-13.0%
EUROPE DATED BRENT SWAP	UB	460	225	104.4%	690	-33.3%
EUROPE JET KERO NWE CALSW	UJ	25	30	-16.7%	26	-3.8%
EUROPE NAPHTHA CALSWAP	UN	2,987	2,501	19.4%	2,715	10.0%
EURO PROPANE CIF ARA SWA	PS	2,094	1,688	24.1%	2,088	0.3%
FLORIDA GAS ZONE3 BASIS S	FP	0	0	-	0	-
FREIGHT MARKETS	FLP	851	729	16.7%	869	-2.1%

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<b>Energy Futures</b>						
FREIGHT MARKETS	FRC	350	380	-7.9%	390	-10.3%
FREIGHT MARKETS	FRS	0	0	-	0	-
FREIGHT MARKETS	T2D	2,520	1,032	144.2%	2,595	-2.9%
FREIGHT MARKETS	TC6	0	120	-100.0%	0	-
FREIGHT MARKETS	TD3	40	0	-	70	-42.9%
FREIGHT MARKETS	TD8	20	0	-	30	-33.3%
FUEL OIL CRACK VS ICE	FO	8,807	15,163	-41.9%	7,917	11.2%
FUEL OIL NWE CRACK VS ICE	FI	166	171	-2.9%	171	-2.9%
FUEL OIL (PLATS) CAR CM	1W	0	112	-100.0%	0	-
FUEL OIL (PLATS) CAR CN	1X	0	72	-100.0%	0	-
FUELOIL SWAP:CARGOES VS.B	FS	1,039	804	29.2%	995	4.4%
GAS EURO-BOB OXY NWE BARGES	7H	5,486	6,940	-21.0%	5,960	-8.0%
GAS EURO-BOB OXY NWE BARGES CRK	7K	26,957	36,191	-25.5%	27,681	-2.6%
GASOIL 0.1 CIF MED SWAP	Z4	0	0	-	0	-
GASOIL 0.1CIF MED VS ICE	Z5	0	10	-100.0%	0	-
GASOIL 0.1 CIF NWE VS ISE	TU	10	0	-	5	100.0%
GASOIL 0.1 CIF VS ICE GAS	8W	0	0	-	0	-
GASOIL 0.1 RDAM BRGS VS I	WQ	10	146	-93.2%	15	-33.3%
GASOIL 0.1 ROTTERDAM BARG	VL	59	365	-83.8%	67	-11.9%
GASOIL 10P CRG CIF NW VS	3V	0	0	-	0	-
GASOIL 10PPM VS ICE SWAP	TP	27	379	-92.9%	24	12.5%
GASOIL BULLET SWAP	BG	0	0	-	0	-
GASOIL CALENDAR SWAP	GX	52	34	52.9%	48	8.3%
GASOIL CRACK SPREAD CALEN	GZ	11,793	23,039	-48.8%	12,390	-4.8%
GASOIL MINI CALENDAR SWAP	QA	693	609	13.8%	752	-7.8%
GERMAN POWER BASELOAD CAL MONTH FUT	DEB	945	61	1,449.2%	724	30.5%
GROUP THREE ULSD (PLATTS)	A7	39	139	-71.9%	45	-13.3%
GROUP THREE UNLEAD GAS (P	A9	0	425	-100.0%	0	-
GRP THREE ULSD(PLT)VS HEA	A6	10,270	10,739	-4.4%	6,998	46.8%
GRP THREE UNL GS (PLT) VS	A8	4,179	4,047	3.3%	4,555	-8.3%
GULF COAST 3% FUEL OIL BA	VZ	385	2,119	-81.8%	665	-42.1%
GULF COAST JET FUEL CLNDR	GE	611	838	-27.1%	683	-10.5%
GULF COAST JET VS NYM 2 H	ME	35,608	33,329	6.8%	35,208	1.1%
GULF COAST NO.6 FUEL OIL	MF	22,833	61,311	-62.8%	26,807	-14.8%
GULF COAST NO.6 FUEL OIL	MG	941	8,862	-89.4%	1,108	-15.1%
GULF COAST ULSD CALENDAR	LY	1,576	1,201	31.2%	1,603	-1.7%
GULF COAST ULSD CRACK SPR	GY	470	995	-52.8%	510	-7.8%
HEATING OIL BALMO CLNDR S	1G	0	0	-	35	-100.0%
HEATING OIL CRCK SPRD BAL	1H	18	0	-	0	-
HEATING OIL PHY	HOL	0	0	0.0%	0	0.0%
HENRY HUB BASIS SWAP	HB	10,821	2,080	420.2%	12,027	-10.0%
HENRY HUB FINANCIAL LAST	NBP	0	39	-100.0%	0	-
HENRY HUB FINANCIAL LAST	TTE	0	4	-100.0%	0	-
HENRY HUB INDEX SWAP FUTU	IN	15,657	2,712	477.3%	13,437	16.5%
HENRY HUB SWAP	NN	956,361	1,112,596	-14.0%	978,248	-2.2%
HOUSTON SHIP CHANNEL BASI	NH	9,493	14,993	-36.7%	10,020	-5.3%
HUSTN SHIP CHNL PIPE SWP	XJ	0	0	-	0	-
ICE BRENT DUBAI SWAP	DB	37,746	45,879	-17.7%	34,642	9.0%
ICE GASOIL BALMO SWAP	U9	0	0	-	0	-
IN DELIVERY MONTH EUA	6T	0	3,698	-100.0%	0	-
INDIANA MISO	FAD	0	17,640	-100.0%	0	-
INDIANA MISO	FTD	3,000	8,400	-64.3%	2,400	25.0%
INDIANA MISO	FTM	0	0	-	0	-

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INDIANA MISO	PDD	350	936	-62.6%	426	-17.8%
INDIANA MISO	PTD	525	581	-9.6%	455	15.4%
INDONESIAN COAL	MCC	0	0	-	0	-
INDONESIAN COAL ICI4	ICI	953	50	1,806.0%	820	16.2%
ISO NEW ENGLAND OFF-PEAK	KI	0	0	-	0	-
ISO NEW ENGLAND PK LMP	NI	0	0	-	0	-
JAPAN C&F NAPHTHA CRACK S	JB	121	924	-86.9%	121	0.0%
JAPAN C&F NAPHTHA SWAP	JA	1,667	2,754	-39.5%	1,700	-1.9%
JAPAN NAPHTHA BALMO SWAP	E6	0	47	-100.0%	5	-100.0%
JET AV FUEL (P) CAR FM ICE GAS SWAP	1V	0	16	-100.0%	0	-
JET CIF NWE VS ICE	JC	285	535	-46.7%	327	-12.8%
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	6,680	3,250	105.5%	4,680	42.7%
JKM LNG Futures	JKM	5,637	1,715	228.7%	5,056	11.5%
LA CARB DIESEL (OPIS)	LX	0	0	-	0	-
LA CARB DIESEL (OPIS) SWA	KL	58	575	-89.9%	128	-54.7%
LA CARBOB GASOLINE(OPIS)S	JL	325	1,150	-71.7%	300	8.3%
LA JET FUEL VS NYM NO 2 H	MQ	0	0	-	0	-
LA JET (OPIS) SWAP	JS	1,589	2,735	-41.9%	1,791	-11.3%
LLS (ARGUS) CALENDAR SWAP	XA	419	0	-	439	-4.6%
LLS (ARGUS) VS WTI SWAP	WJ	21,720	34,910	-37.8%	23,249	-6.6%
LOS ANGELES CARB GASOLINE	MH	0	0	-	0	-
MARS (ARGUS) VS WTI SWAP	YX	5,830	11,545	-49.5%	5,460	6.8%
MARS (ARGUS) VS WTI TRD M	YV	25,455	27,905	-8.8%	27,792	-8.4%
MARS BLEND CRUDE OIL	MB	0	200	-100.0%	0	-
MCCLOSKEY ARA ARGS COAL	MTF	21,653	39,233	-44.8%	20,361	6.3%
MCCLOSKEY RCH BAY COAL	MFF	3,221	4,125	-21.9%	3,218	0.1%
MGF FUT	MGF	0	35	-100.0%	0	-
MGN1 SWAP FUT	MGN	340	441	-22.9%	300	13.3%
MICHIGAN BASIS	NF	1,617	3,802	-57.5%	1,648	-1.9%
MICHIGAN MISO	HMO	0	22,120	-100.0%	0	-
MICHIGAN MISO	HMW	0	1,190	-100.0%	0	-
MINI GAS EUROBOB OXY NWE ARGS BALMO	MEB	304	294	3.4%	67	353.7%
MINI RBOB V. EBOBARG NWE BRGS BALMO	MXR	170	310	-45.2%	1,144	-85.1%
MINI RBOB V. EBOB(ARGUS) NWE BRGS	MXB	5,388	2,692	100.1%	3,729	44.5%
MJC FUT	MJC	265	555	-52.3%	260	1.9%
MNC FUT	MNC	6,337	5,274	20.2%	5,936	6.8%
MONT BELVIEU ETHANE 5 DECIMAL	C0	38,997	45,202	-13.7%	38,859	0.4%
MONT BELVIEU ETHANE OPIS BALMO	8C	95	125	-24.0%	149	-36.2%
MONT BELVIEU LDH PROPANE 5 DECIMAL	B0	139,518	128,901	8.2%	144,006	-3.1%
MONT BELVIEU LDH PROPANE OPIS BALMO	8O	3,473	1,645	111.1%	879	295.1%
MONT BELVIEU NATURAL GASOLINE 5 DEC	7Q	16,399	20,211	-18.9%	17,011	-3.6%
MONT BELVIEU NATURAL GASOLINE BALMO	R0	390	336	16.1%	300	30.0%
MONT BELVIEU NORMAL BUTANE 5 DECIMAL	D0	48,035	38,893	23.5%	43,180	11.2%
MONT BELVIEU NORMAL BUTANE BALMO	8J	1,662	661	151.4%	1,197	38.8%
NAT GAS BASIS SWAP	TZ6	1,498	4,267	-64.9%	1,715	-12.7%
NATURAL GAS	XIC	0	0	-	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	DSF	0	0	-	0	-
NATURAL GAS INDEX	TZI	0	0	-	0	-
NATURAL GAS PEN SWP	NP	133,878	170,783	-21.6%	128,032	4.6%
NEPOOL CNCTCT 5MW D AH O	P3	0	0	-	0	-
NEPOOL CONECTIC 5MW D AH	P2	0	0	-	0	-

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Commodity		Open Interest MAY 2019	Open Interest MAY 2018	% CHG	Open Interest APR 2019	% CHG
<b>Energy Futures</b>						
NEPOOL INTR HUB 5MW D AH	H2	366,553	475,653	-22.9%	375,753	-2.4%
NEPOOL INTR HUB 5MW D AH	U6	20,399	30,951	-34.1%	21,279	-4.1%
NEPOOL NE MASS 5MW D AH O	P8	9,483	14,040	-32.5%	10,587	-10.4%
NEPOOL NE MASS 5MW D AH P	P7	510	765	-33.3%	576	-11.5%
NEPOOL RHD ISLD 5MW D AH	U4	0	0	-	0	-
NEPOOL RHODE IL 5MW D AH	U5	0	0	-	0	-
NEPOOL W CNT MASS 5MW D A	L9	0	0	-	0	-
NEPOOL W CNTR M 5MW D AH	R6	0	0	-	0	-
NEW ENGLAND HUB PEAK DAIL	CE	1,364	1,888	-27.8%	1,452	-6.1%
NEW YORK ETHANOL SWAP	EZ	1,013	2,265	-55.3%	1,005	0.8%
NEW YORK HUB ZONE G PEAK	GN	992	2,304	-56.9%	1,056	-6.1%
NEW YORK HUB ZONE J PEAK	JN	1,385	850	62.9%	1,155	19.9%
NGPL MID-CONTINENT	NL	9,972	18,852	-47.1%	10,840	-8.0%
NGPL TEX/OK	PD	15,772	26,399	-40.3%	17,877	-11.8%
N ILLINOIS HUB DAILY	UD	68	258	-73.6%	68	0.0%
N ILLINOIS HUB MTHLY	UM	0	0	-	0	-
NO 2 UP-DOWN SPREAD CALEN	UT	200	483	-58.6%	375	-46.7%
NORTHERN NATURAL GAS DEMAR	PE	306	1,096	-72.1%	368	-16.8%
NORTHERN NATURAL GAS VENTU	PF	918	1,444	-36.4%	1,104	-16.8%
NORTHERN ILLINOIS OFF-PEA	UO	0	0	-	0	-
NORTHWEST ROCKIES BASIS S	NR	10,025	29,725	-66.3%	11,389	-12.0%
N ROCKIES PIPE SWAP	XR	0	30	-100.0%	0	-
NY1% VS GC SPREAD SWAP	VR	2,030	2,757	-26.4%	1,710	18.7%
NY 2.2% FUEL OIL (PLATTS	Y3	0	0	-	0	-
NY 3.0% FUEL OIL (PLATTS	H1	225	350	-35.7%	300	-25.0%
NY HARBOR 1% FUEL OIL BAL	VK	0	0	-	0	-
NY HARBOR HEAT OIL SWP	MP	12,906	7,953	62.3%	8,384	53.9%
NY HARBOR LOW SULPUR GAS 1000MBBL	NLS	890	690	29.0%	915	-2.7%
NY HARBOR RESIDUAL FUEL 1	MM	1,080	1,926	-43.9%	1,015	6.4%
NY HARBOR RESIDUAL FUEL C	ML	0	0	-	0	-
NYH NO 2 CRACK SPREAD CAL	HK	3,239	5,292	-38.8%	3,441	-5.9%
NYISO A	KA	0	0	-	0	-
NYISO A OFF-PEAK	KB	0	0	-	0	-
NYISO CAPACITY	LHV	709	354	100.3%	756	-6.2%
NYISO CAPACITY	NNC	146	769	-81.0%	174	-16.1%
NYISO CAPACITY	NRS	227	1,471	-84.6%	262	-13.4%
NYISO G	KG	0	0	-	0	-
NYISO G OFF-PEAK	KH	0	0	-	0	-
NYISO J	KJ	0	0	-	0	-
NYISO J OFF-PEAK	KK	0	0	-	0	-
NYISO ZONE A 5MW D AH O P	K4	14,082	42,750	-67.1%	14,882	-5.4%
NYISO ZONE A 5MW D AH PK	K3	1,536	5,346	-71.3%	1,776	-13.5%
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	451,466	656,750	-31.3%	439,962	2.6%
NYISO ZONE G 5MW D AH PK	T3	18,167	30,578	-40.6%	17,008	6.8%
NYISO ZONE J 5MW D AH O P	D4	85,086	214,041	-60.2%	97,086	-12.4%
NYISO ZONE J 5MW D AH PK	D3	7,306	15,661	-53.3%	8,306	-12.0%
NYMEX ALUMINUM FUTURES	AN	372	576	-35.4%	539	-31.0%
NYMEX ULSD VS NYMEX HO	UY	0	0	-	700	-100.0%
NY ULSD (ARGUS) VS HEATING OIL	7Y	998	311	220.9%	969	3.0%
ONEOK OKLAHOMA NG BASIS	8X	0	428	-100.0%	0	-
ONTARIO POWER SWAPS	OFD	0	0	-	0	-

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<b>Energy Futures</b>						
ONTARIO POWER SWAPS	OFM	0	0	-	0	-
ONTARIO POWER SWAPS	OPD	0	0	-	0	-
ONTARIO POWER SWAPS	OPM	100	0	-	0	-
PANHANDLE BASIS SWAP FUTU	PH	3,391	9,901	-65.8%	3,763	-9.9%
PANHANDLE PIPE SWAP	XH	0	1,451	-100.0%	0	-
PERMIAN BASIS SWAP	PM	4,028	7,442	-45.9%	4,152	-3.0%
PETROCHEMICALS	22	175	181	-3.3%	171	2.3%
PETROCHEMICALS	32	50	157	-68.2%	61	-18.0%
PETROCHEMICALS	3NA	26	0	-	28	-7.1%
PETROCHEMICALS	51	17	23	-26.1%	5	240.0%
PETROCHEMICALS	8I	4,724	6,350	-25.6%	4,958	-4.7%
PETROCHEMICALS	91	892	898	-0.7%	850	4.9%
PETROCHEMICALS	HPE	0	0	-	0	-
PETROCHEMICALS	MAA	20	50	-60.0%	50	-60.0%
PETROCHEMICALS	MAC	0	0	-	0	-
PETROCHEMICALS	MAE	522	320	63.1%	568	-8.1%
PETROCHEMICALS	MAS	398	115	246.1%	235	69.4%
PETROCHEMICALS	MBE	605	610	-0.8%	315	92.1%
PETROCHEMICALS	MNB	2,238	4,193	-46.6%	2,221	0.8%
PETROCHEMICALS	MPS	260	200	30.0%	265	-1.9%
PETRO CRCKS & SPRDS ASIA	JNC	0	0	-	0	-
PETRO CRCKS & SPRDS ASIA	STI	0	0	-	0	-
PETRO CRCKS & SPRDS ASIA	STR	690	100	590.0%	690	0.0%
PETRO CRCKS & SPRDS ASIA	STS	246	1,036	-76.3%	220	11.8%
PETRO CRCKS & SPRDS NA	CRB	8,535	1,030	728.6%	9,145	-6.7%
PETRO CRCKS & SPRDS NA	EXR	3,958	4,310	-8.2%	4,652	-14.9%
PETRO CRCKS & SPRDS NA	FOC	1,300	2,425	-46.4%	500	160.0%
PETRO CRCKS & SPRDS NA	GBB	350	2,525	-86.1%	220	59.1%
PETRO CRCKS & SPRDS NA	GCC	110	690	-84.1%	165	-33.3%
PETRO CRCKS & SPRDS NA	GCI	2,320	2,586	-10.3%	2,363	-1.8%
PETRO CRCKS & SPRDS NA	GCM	0	142	-100.0%	0	-
PETRO CRCKS & SPRDS NA	GCU	14,177	35,860	-60.5%	15,313	-7.4%
PETRO CRCKS & SPRDS NA	GFC	0	25	-100.0%	0	-
PETRO CRCKS & SPRDS NA	HOB	7,716	6,965	10.8%	7,560	2.1%
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	0	-	0	-
PETRO CRCKS & SPRDS NA	NYH	0	0	-	0	-
PETRO CRCKS & SPRDS NA	RBB	20,774	18,067	15.0%	18,624	11.5%
PETRO CRCKS & SPRDS NA	RVG	15,125	31,866	-52.5%	16,533	-8.5%
PETRO CRCKS & SPRDS NA	SF3	125	105	19.0%	167	-25.1%
PETRO CRK&SPRD EURO	1NB	3,200	5,166	-38.1%	3,565	-10.2%
PETRO CRK&SPRD EURO	1ND	0	0	-	0	-
PETRO CRK&SPRD EURO	43	50	161	-68.9%	75	-33.3%
PETRO CRK&SPRD EURO	BFR	40	0	-	60	-33.3%
PETRO CRK&SPRD EURO	BOB	3,054	4,869	-37.3%	3,043	0.4%
PETRO CRK&SPRD EURO	EGB	0	0	-	0	-
PETRO CRK&SPRD EURO	EGN	0	0	-	0	-
PETRO CRK&SPRD EURO	EOB	30	101	-70.3%	35	-14.3%
PETRO CRK&SPRD EURO	EPN	1,418	1,488	-4.7%	1,301	9.0%
PETRO CRK&SPRD EURO	EVC	2,872	7,211	-60.2%	2,925	-1.8%
PETRO CRK&SPRD EURO	FBT	40	0	-	60	-33.3%

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<b>Energy Futures</b>					
PETRO CRK&SPRD EURO FVB	30	30	0.0%	30	0.0%
PETRO CRK&SPRD EURO GCB	0	155	-100.0%	0	-
PETRO CRK&SPRD EURO GOC	20	54	-63.0%	21	-4.8%
PETRO CRK&SPRD EURO MGB	110	40	175.0%	90	22.2%
PETRO CRK&SPRD EURO MUD	10	154	-93.5%	10	0.0%
PETRO CRK&SPRD EURO NBB	0	6	-100.0%	21	-100.0%
PETRO CRK&SPRD EURO NOB	1,867	1,998	-6.6%	2,102	-11.2%
PETRO CRK&SPRD EURO SFB	0	0	-	21	-100.0%
PETROLEUM PRODUCTS 1NM	200	0	-	123	62.6%
PETROLEUM PRODUCTS EWB	0	0	-	0	-
PETROLEUM PRODUCTS EWG	3,888	9,886	-60.7%	4,588	-15.3%
PETROLEUM PRODUCTS JCC	20	0	-	0	-
PETROLEUM PRODUCTS MBS	0	0	-	0	-
PETROLEUM PRODUCTS MGS	0	0	-	0	-
PETROLEUM PRODUCTS MME	0	0	-	0	-
PETROLEUM PRODUCTS MPE	0	0	-	0	-
PETROLEUM PRODUCTS VU	50	575	-91.3%	0	-
PETROLEUM PRODUCTS ASIA E6M	0	20	-100.0%	0	-
PETROLEUM PRODUCTS ASIA MJN	2,124	2,935	-27.6%	1,914	11.0%
PETROLEUM PRODUCTS ASIA MSB	0	0	-	0	-
PETRO OUTRIGHT EURO 0B	88	0	-	10	780.0%
PETRO OUTRIGHT EURO 0C	0	0	-	10	-100.0%
PETRO OUTRIGHT EURO 0D	4,049	5,328	-24.0%	3,968	2.0%
PETRO OUTRIGHT EURO 0E	0	30	-100.0%	20	-100.0%
PETRO OUTRIGHT EURO 0F	957	1,354	-29.3%	1,009	-5.2%
PETRO OUTRIGHT EURO 1T	25	30	-16.7%	26	-3.8%
PETRO OUTRIGHT EURO 33	0	0	-	0	-
PETRO OUTRIGHT EURO 5L	60	45	33.3%	10	500.0%
PETRO OUTRIGHT EURO 63	5	0	-	0	-
PETRO OUTRIGHT EURO 6L	0	0	-	0	-
PETRO OUTRIGHT EURO 7I	125	33	278.8%	42	197.6%
PETRO OUTRIGHT EURO 7R	95	380	-75.0%	114	-16.7%
PETRO OUTRIGHT EURO 88	0	0	-	0	-
PETRO OUTRIGHT EURO CBB	0	0	-	0	-
PETRO OUTRIGHT EURO CGB	0	0	-	0	-
PETRO OUTRIGHT EURO CPB	60	405	-85.2%	62	-3.2%
PETRO OUTRIGHT EURO EFF	0	8	-100.0%	5	-100.0%
PETRO OUTRIGHT EURO EFM	3	0	-	0	-
PETRO OUTRIGHT EURO ENS	85	170	-50.0%	55	54.5%
PETRO OUTRIGHT EURO ESB	0	0	-	0	-
PETRO OUTRIGHT EURO EWN	796	1,196	-33.4%	1,001	-20.5%
PETRO OUTRIGHT EURO FBD	0	0	-	0	-
PETRO OUTRIGHT EURO FLB	0	0	-	0	-
PETRO OUTRIGHT EURO GES	0	0	-	0	-
PETRO OUTRIGHT EURO H5G	60	0	-	0	-
PETRO OUTRIGHT EURO MBB	0	0	-	0	-
PETRO OUTRIGHT EURO MBN	2,510	4,486	-44.0%	2,328	7.8%
PETRO OUTRIGHT EURO MEF	1,309	0	-	1,317	-0.6%
PETRO OUTRIGHT EURO R53	24	0	-	12	100.0%
PETRO OUTRIGHT EURO R5M	157	0	-	4	3,825.0%
PETRO OUTRIGHT EURO R5O	121	0	-	115	5.2%
PETRO OUTRIGHT EURO S5M	37	0	-	37	0.0%
PETRO OUTRIGHT EURO SMU	0	178	-100.0%	0	-

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<b>Energy Futures</b>						
PETRO OUTRIGHT EURO	T0	9	77	-88.3%	9	0.0%
PETRO OUTRIGHT EURO	T2B	0	0	-	0	-
PETRO OUTRIGHT EURO	ULB	0	0	-	0	-
PETRO OUTRIGHT EURO	V0	0	780	-100.0%	0	-
PETRO OUTRIGHT EURO	X0	0	0	-	0	-
PETRO OUTRIGHT NA	FCB	32	254	-87.4%	132	-75.8%
PETRO OUTRIGHT NA	FOM	0	0	-	0	-
PETRO OUTRIGHT NA	JE	14	250	-94.4%	21	-33.3%
PETRO OUTRIGHT NA	JET	3,200	2,050	56.1%	2,625	21.9%
PETRO OUTRIGHT NA	JTB	1,525	0	-	550	177.3%
PETRO OUTRIGHT NA	MBL	0	38	-100.0%	0	-
PETRO OUTRIGHT NA	MEN	155	254	-39.0%	185	-16.2%
PETRO OUTRIGHT NA	MEO	3,348	4,957	-32.5%	3,542	-5.5%
PETRO OUTRIGHT NA	MFD	0	70	-100.0%	0	-
PETRO OUTRIGHT NA	MMF	251	80	213.8%	170	47.6%
PETRO OUTRIGHT NA	NYT	0	0	-	0	-
PETRO OUTRIGHT NA	XER	0	0	-	0	-
PJM AD HUB 5MW REAL TIME	V3	177,718	282,922	-37.2%	176,246	0.8%
PJM AD HUB 5MW REAL TIME	Z9	16,161	18,279	-11.6%	16,469	-1.9%
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	3,920	-100.0%	0	-
PJM ATSI ELEC	MPD	0	220	-100.0%	0	-
PJM BGE DA OFF-PEAK	R3	0	8,282	-100.0%	0	-
PJM BGE DA PEAK	E3	0	450	-100.0%	0	-
PJM COMED 5MW D AH O PK	D9	0	15,805	-100.0%	0	-
PJM COMED 5MW D AH PK	D8	0	850	-100.0%	0	-
PJM DAILY	JD	828	1,096	-24.5%	904	-8.4%
PJM DAYTON DA OFF-PEAK	R7	58,565	89,200	-34.3%	60,565	-3.3%
PJM DAYTON DA PEAK	D7	3,850	8,295	-53.6%	4,050	-4.9%
PJM JCPL DA OFF-PEAK	F2	0	0	-	0	-
PJM JCPL DA PEAK	J2	0	0	-	0	-
PJM NI HUB 5MW REAL TIME	B3	7,577	23,102	-67.2%	7,040	7.6%
PJM NI HUB 5MW REAL TIME	B6	75,971	459,966	-83.5%	60,059	26.5%
PJM NILL DA OFF-PEAK	L3	80,546	270,822	-70.3%	94,146	-14.4%
PJM NILL DA PEAK	N3	4,992	16,911	-70.5%	5,772	-13.5%
PJM OFF-PEAK LMP SWAP FUT	JP	0	328	-100.0%	0	-
PJM PECO ZONE5MW PEAK CAL MO DAY AH	4N	2,960	0	-	2,960	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	73,145	31,240	134.1%	76,825	-4.8%
PJM PSEG DA PEAK	L6	3,810	440	765.9%	3,920	-2.8%
PJM WESTH DA OFF-PEAK	E4	124,172	310,219	-60.0%	136,972	-9.3%
PJM WESTHDA PEAK	J4	6,730	16,763	-59.9%	7,370	-8.7%
PJM WESTH RT OFF-PEAK	N9	659,775	1,519,278	-56.6%	736,490	-10.4%
PJM WESTH RT PEAK	L1	100,824	102,994	-2.1%	109,932	-8.3%
PLASTICS	PGP	3,480	782	345.0%	3,461	0.5%
PREMIUM UNLD 10P FOB MED	3G	267	465	-42.6%	426	-37.3%
PREMIUM UNLEAD 10PPM FOB	8G	0	84	-100.0%	0	-
PREM UNL GAS 10PPM RDAM FOB BALMO	7N	0	0	-	0	-
PREM UNL GAS 10PPM RDAM FOB SWAP	7L	0	54	-100.0%	15	-100.0%

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<b>Energy Futures</b>						
PROPANE NON-LDH MB (OPIS) BALMO SWP	1S	75	405	-81.5%	937	-92.0%
PROPANE NON-LDH MT. BEL (OPIS) SWP	1R	64,241	47,839	34.3%	66,288	-3.1%
RBOB CALENDAR SWAP	RL	17,116	12,578	36.1%	15,768	8.5%
RBOB CRACK SPREAD	RM	5,729	6,559	-12.7%	4,977	15.1%
RBOB CRACK SPREAD BALMO S	1E	25	0	-	0	-
RBOB GASOLINE BALMO CLNDR	1D	805	1,526	-47.2%	1,598	-49.6%
RBOB PHY	RBL	0	0	0.0%	0	0.0%
RBOB SPREAD (PLATTS) SWAP	RI	0	0	-	0	-
RBOB VS HEATING OIL SWAP	RH	75	1,550	-95.2%	75	0.0%
SAN JUAN BASIS SWAP	NJ	4,793	14,992	-68.0%	6,002	-20.1%
SAN JUAN PIPE SWAP	XX	0	360	-100.0%	0	-
SINGAPORE 180CST BALMO	BS	10	105	-90.5%	26	-61.5%
SINGAPORE 380CST BALMO	BT	25	579	-95.7%	78	-67.9%
SINGAPORE 380CST FUEL OIL	SE	5,692	10,964	-48.1%	5,490	3.7%
SINGAPORE FUEL 180CST CAL	UA	579	2,243	-74.2%	667	-13.2%
SINGAPORE FUEL OIL SPREAD	SD	178	1,812	-90.2%	190	-6.3%
SINGAPORE GASOIL	MAF	3,705	0	-	4,200	-11.8%
SINGAPORE GASOIL	MTB	44	90	-51.1%	28	57.1%
SINGAPORE GASOIL	MTS	5,898	8,302	-29.0%	6,131	-3.8%
SINGAPORE GASOIL	STZ	0	3,400	-100.0%	0	-
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	312	350	-10.9%	323	-3.4%
SINGAPORE GASOIL CALENDAR	SGG	0	0	-	0	-
SINGAPORE GASOIL SWAP	SG	1,918	7,280	-73.7%	2,093	-8.4%
SINGAPORE GASOIL VS ICE	GA	14,775	47,435	-68.9%	17,085	-13.5%
SINGAPORE JET KERO BALMO	BX	0	0	-	0	-
SINGAPORE JET KERO GASOIL	RK	4,945	11,050	-55.2%	5,655	-12.6%
SINGAPORE JET KEROSENE SW	KS	1,415	1,835	-22.9%	1,555	-9.0%
SINGAPORE JET KERO VS. GASOIL BALMO	ZO	0	0	-	0	-
SINGAPORE MOGAS 92 UNLEADED BALMO	1P	0	350	-100.0%	450	-100.0%
SINGAPORE MOGAS 92 UNLEADED SWP	1N	18,203	15,709	15.9%	20,277	-10.2%
SINGAPORE NAPHTHA SWAP	SP	0	0	-	0	-
SING FUEL	MSD	0	10	-100.0%	0	-
SOCAL PIPE SWAP	XN	0	0	-	0	-
SONAT BASIS SWAP FUTURE	SZ	0	0	-	0	-
SOUTH STAR TEX OKLHM KNS	8Z	0	70	-100.0%	0	-
Sumas Basis Swap	NK	1,433	4,259	-66.4%	1,557	-8.0%
SUMAS NAT GAS PLATTS FIXED PRICE	DVS	0	0	-	0	-
TC2 ROTTERDAM TO USAC 37K	TM	395	314	25.8%	415	-4.8%
TC5 RAS TANURA TO YOKOHAM	TH	1,290	80	1,512.5%	1,445	-10.7%
TCO BASIS SWAP	TC	3,300	6,951	-52.5%	3,672	-10.1%
TCO NG INDEX SWAP	Q1	0	0	-	0	-
TD3 MEG TO JAPAN 250K MT	TL	13,401	1,943	589.7%	12,267	9.2%
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	0	-	0	-
TETCO M-3 INDEX	IX	0	0	-	0	-
Tetco STX Basis	TX	0	428	-100.0%	0	-
TEXAS EASTERN ZONE M-3 BA	NX	1,342	4,443	-69.8%	1,404	-4.4%
TEXAS GAS ZONE1 NG BASIS	9F	0	3,364	-100.0%	0	-

## NYMEX/COMEX Exchange Open Interest Report - Monthly

	Commodity	Open Interest MAY 2019	Open Interest MAY 2018	% CHG	Open Interest APR 2019	% CHG
Energy Futures						
Transco Zone 3 Basis	CZ	0	1,926	-100.0%	0	-
TRANSCO ZONE 3 NG INDEX S	Y6	0	0	-	0	-
TRANSCO ZONE4 BASIS SWAP	TR	2,479	5,832	-57.5%	2,616	-5.2%
TRANSCO ZONE 4 NAT GAS IN	B2	0	0	-	0	-
TRANSCO ZONE 6 BASIS SWAP	NZ	0	1,679	-100.0%	0	-
TRANSCO ZONE 6 INDEX	IT	0	0	-	0	-
UCM FUT	UCM	0	0	-	0	-
UK NBP NAT GAS CAL MTH FUT	UKG	120	203	-40.9%	160	-25.0%
ULSD 10PPM CIF MED SWAP	Z6	0	0	-	0	-
ULSD 10PPM CIF MED VS ICE	Z7	0	16	-100.0%	0	-
ULSD 10PPM CIF NW BALMO S	B1	0	0	-	0	-
ULSD UP-DOWN BALMO SWP	1L	4,425	6,875	-35.6%	3,300	34.1%
UP DOWN GC ULSD VS NMX HO	LT	48,749	40,763	19.6%	42,918	13.6%
WAHA BASIS	NW	1,749	4,481	-61.0%	1,848	-5.4%
WAHA INDEX SWAP FUTURE	IY	0	0	-	0	-
WESTERN RAIL DELIVERY PRB	QP	0	120	-100.0%	0	-
WTI-BRENT BULLET SWAP	BY	3,129	6,704	-53.3%	3,654	-14.4%
WTI-BRENT CALENDAR SWAP	BK	181,167	130,303	39.0%	167,910	7.9%
WTI CALENDAR	CS	192,665	183,671	4.9%	191,411	0.7%
WTS (ARGUS) VS WTI SWAP	FF	62,467	60,042	4.0%	52,148	19.8%
WTS (ARGUS) VS WTI TRD MT	FH	6,014	3,480	72.8%	5,843	2.9%
Energy Options						
12 MO GASOIL CAL SWAP SPR	GXZ	0	0	-	0	-
BRENT 1 MONTH CAL	AA	0	2,000	-100.0%	0	-
BRENT CALENDAR SWAP	BA	8,507	3,498	143.2%	6,627	28.4%
BRENT CRUDE OIL 12 M CSO	9Y	0	0	-	0	-
BRENT CRUDE OIL 1 M CSO	9C	25,350	210,610	-88.0%	27,300	-7.1%
BRENT CRUDE OIL 6 M CSO	9L	0	0	-	0	-
BRENT OIL LAST DAY	BE	63,595	91,518	-30.5%	64,260	-1.0%
BRENT OIL LAST DAY	BZO	184,370	196,739	-6.3%	138,058	33.5%
BRENT OIL LAST DAY	OS	50	1,072	-95.3%	50	0.0%
COAL API2 INDEX	CLA	255	2,740	-90.7%	230	10.9%
COAL API2 INDEX	CQA	0	1,755	-100.0%	350	-100.0%
COAL API2 INDEX	MTC	0	0	-	0	-
COAL API4 INDEX	RLA	0	25	-100.0%	0	-
COAL API4 INDEX	RQA	0	0	-	0	-
COAL SWAP	CPF	0	20	-100.0%	0	-
COAL SWAP	RPF	0	250	-100.0%	0	-
CRUDE OIL	6Y	150	0	-	150	0.0%
CRUDE OIL 1MO	WA	655,949	446,235	47.0%	596,856	9.9%
CRUDE OIL APO	AO	376,971	475,009	-20.6%	386,852	-2.6%
CRUDE OIL CALNDR STRIP	6F	200	170	17.6%	200	0.0%
CRUDE OIL OUTRIGHTS	AH	0	100	-100.0%	0	-
CRUDE OIL OUTRIGHTS	DBP	0	0	-	0	-
CRUDE OIL OUTRIGHTS	WCI	0	4,020	-100.0%	295	-100.0%
CRUDE OIL PHY	CD	0	0	0.0%	0	-
CRUDE OIL PHY	LC	46,270	44,462	4.1%	50,167	-7.8%
CRUDE OIL PHY	LO	2,417,405	2,855,734	-15.3%	2,749,023	-12.1%
CRUDE OIL PHY	LO1	4,665	9,790	-52.3%	8,867	-47.4%
CRUDE OIL PHY	LO2	232	2,512	-90.8%	1,179	-80.3%
CRUDE OIL PHY	LO3	166	0	-	895	-81.5%
CRUDE OIL PHY	LO4	0	1,548	-100.0%	89	-100.0%

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Energy Options						
CRUDE OIL PHY	LO5	0	62	-100.0%	0	-
ELEC MISO PEAK	9T	0	0	-	0	-
ETHANOL	CE1	0	0	-	0	-
ETHANOL	CE3	0	150	-100.0%	0	-
ETHANOL SWAP	CVR	12,943	12,164	6.4%	12,944	0.0%
ETHANOL SWAP	GVR	1,800	2,536	-29.0%	1,920	-6.2%
EUROPEAN JET KEROSENE NWE (PLATTS) AVG PRC	30	0	0	-	0	-
GASOLINE	GCE	0	0	-	0	-
HEATING OIL CRACK OPTIONS	CH	0	0	-	0	-
HEATING OIL CRK SPD AVG PRICE OPTIONS	3W	0	0	-	0	-
HEATING OIL PHY	LB	382	620	-38.4%	357	7.0%
HEATING OIL PHY	OH	42,737	36,367	17.5%	52,819	-19.1%
HENRY HUB FINANCIAL LAST	E7	10,040	5,672	77.0%	11,223	-10.5%
HO 1 MONTH CLNDR OPTIONS	FA	1,000	0	-	1,000	0.0%
LLS CRUDE OIL	WJO	0	1,800	-100.0%	0	-
LLS CRUDE OIL	YVO	0	0	0.0%	0	-
MCCLOSKY ARA ARGS COAL	MTO	0	345	-100.0%	0	-
MCCLOSKY RCH BAY COAL	MFO	150	1,150	-87.0%	50	200.0%
NATURAL GAS	G10	0	0	-	0	-
NATURAL GAS 1 M CSO FIN	G4	24,900	5,950	318.5%	9,800	154.1%
NATURAL GAS 2 M CSO FIN	G2	75	0	-	0	-
NATURAL GAS 3 M CSO FIN	G3	30,350	37,970	-20.1%	22,800	33.1%
NATURAL GAS 5 M CSO FIN	G5	250	0	-	0	-
NATURAL GAS 6 M CSO FIN	G6	11,350	3,200	254.7%	9,500	19.5%
NATURAL GAS OPTION ON CALENDAR STRP	6J	10,484	12,286	-14.7%	10,284	1.9%
NATURAL GAS PHY	KD	0	0	0.0%	0	0.0%
NATURAL GAS PHY	LN	1,651,926	1,608,336	2.7%	1,464,558	12.8%
NATURAL GAS PHY	ON	70,108	87,204	-19.6%	63,537	10.3%
NATURAL GAS WINTER STRIP	6I	1,300	0	-	0	-
N ROCKIES PIPE SWAP	ZR	1,878	2,054	-8.6%	1,332	41.0%
NY HARBOR HEAT OIL SWP	AT	13,091	19,105	-31.5%	10,659	22.8%
NYISO ZONE G 5MW PEAK OPTIONS	9U	0	0	-	0	-
NYMEX EUROPEAN GASOIL APO	F7	0	0	-	0	-
PANHANDLE PIPE SWAP	PU	0	3,600	-100.0%	0	-
PETROCHEMICALS	4H	2,198	2,190	0.4%	2,304	-4.6%
PETROCHEMICALS	4J	800	1,430	-44.1%	675	18.5%
PETROCHEMICALS	4K	80	0	-	80	0.0%
PETROCHEMICALS	CPR	20	0	-	0	-
PETRO OUTRIGHT EURO	8H	0	0	-	0	-
PETRO OUTRIGHT EURO	BCO	24	0	-	24	0.0%
PETRO OUTRIGHT NA	DAP	608	48	1,166.7%	654	-7.0%
PJM WES HUB PEAK CAL MTH	6OA	820	1,720	-52.3%	820	0.0%
PJM WES HUB PEAK CAL MTH	JOA	0	0	-	0	-
PJM WES HUB PEAK LMP 50MW	PMA	1,567	9,037	-82.7%	1,567	0.0%
RBOB 1MO CAL SPD OPTIONS	ZA	0	0	-	0	-
RBOB CALENDAR SWAP	RA	182	650	-72.0%	213	-14.6%
RBOB CRACK	RX	0	0	-	0	-
RBOB PHY	OB	17,245	11,711	47.3%	25,057	-31.2%
RBOB PHY	RF	34	125	-72.8%	70	-51.4%
ROTTERDAM 3.5%FUEL OIL CL	Q6	0	0	-	0	-
SAN JUAN PIPE SWAP	PJ	910	1,828	-50.2%	455	100.0%
SHORT TERM	C15	0	0	-	0	-
SHORT TERM	U11	0	0	-	0	-

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<b>Energy Options</b>						
SHORT TERM	U12	0	0	-	0	-
SHORT TERM	U13	0	0	-	0	-
SHORT TERM	U14	0	0	-	0	-
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	225	-100.0%	0	-
SHORT TERM NATURAL GAS	U02	0	0	-	0	-
SHORT TERM NATURAL GAS	U03	400	0	-	0	-
SHORT TERM NATURAL GAS	U04	0	0	-	0	-
SHORT TERM NATURAL GAS	U05	0	80	-100.0%	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	-
SINGAPORE GASOIL CALENDAR	M2	0	0	-	0	-
SINGAPORE JET FUEL CALEND	N2	0	0	-	0	-
SOCAL PIPE SWAP	ZN	0	0	-	0	-
WTI-BRENT BULLET SWAP	BV	112,055	233,480	-52.0%	116,000	-3.4%
WTI CRUDE OIL 1 M CSO FI	7A	141,510	178,700	-20.8%	149,400	-5.3%
<b>Metals Futures</b>						
COMEX GOLD	GC	464,721	460,979	0.8%	431,977	7.6%
NYMEX HOT ROLLED STEEL	HR	17,610	15,997	10.1%	17,090	3.0%
NYMEX PLATINUM	PL	84,742	81,436	4.1%	75,825	11.8%
PALLADIUM	PA	19,467	21,468	-9.3%	22,722	-14.3%
URANIUM	UX	3,027	2,664	13.6%	3,708	-18.4%
COMEX SILVER	SI	210,267	210,701	-0.2%	197,060	6.7%
COMEX E-Mini GOLD	QO	2,518	672	274.7%	2,761	-8.8%
COMEX E-Mini SILVER	QI	235	214	9.8%	118	99.2%
COMEX COPPER	HG	283,703	263,968	7.5%	250,220	13.4%
COMEX MINY COPPER	QC	127	70	81.4%	138	-8.0%
ALUMINUM	A38	102	0	-	104	-1.9%
ALUMINUM	AEP	11,380	14,938	-23.8%	11,577	-1.7%
ALUMINUM	ALA	530	2,780	-80.9%	435	21.8%
ALUMINUM	ALI	0	0	-	0	-
ALUMINUM	AUP	25,889	33,449	-22.6%	27,784	-6.8%

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<b>Metals Futures</b>						
ALUMINUM	CUP	0	100	-100.0%	0	-
ALUMINUM	EDP	10,270	10,890	-5.7%	11,205	-8.3%
ALUMINUM	MJP	6,467	9,577	-32.5%	6,714	-3.7%
COPPER	HGS	12,396	13,972	-11.3%	12,996	-4.6%
E-MICRO GOLD	MGC	12,540	9,477	32.3%	12,528	0.1%
FERROUS PRODUCTS	BUS	3,652	3,858	-5.3%	4,225	-13.6%
GOLD	GPS	0	0	-	0	-
Gold Kilo	GCK	0	0	-	0	-
IRON ORE 62 CHINA PLATTS FUTURES	PIO	0	740	-100.0%	0	-
IRON ORE 62 CHINA TSI FUTURES	TIO	7,290	10,934	-33.3%	8,786	-17.0%
LNDN ZINC	ZNC	27	6	350.0%	9	200.0%
SILVER	SIL	1,481	1,408	5.2%	1,674	-11.5%
<b>Metals Options</b>						
COMEX COPPER	HX	46,676	21,482	117.3%	37,481	24.5%
COMEX GOLD	OG	1,135,058	1,093,235	3.8%	1,304,335	-13.0%
COMEX SILVER	SO	232,839	191,463	21.6%	225,257	3.4%
COPPER	H1E	11	0	-	60	-81.7%
COPPER	H2E	0	0	-	25	-100.0%
COPPER	H3E	0	0	-	0	-
COPPER	H4E	0	0	-	0	-
COPPER	H5E	0	0	-	0	-
GOLD	OG1	7,601	3,175	139.4%	10,291	-26.1%
GOLD	OG2	3,218	2,981	8.0%	3,915	-17.8%
GOLD	OG3	955	1,380	-30.8%	3,081	-69.0%
GOLD	OG4	0	112	-100.0%	22	-100.0%
GOLD	OG5	0	0	-	0	-
HOT ROLLED COIL STEEL CALL OPTION	HRO	650	700	-7.1%	700	-7.1%
IRON ORE 62 CHINA TSI CALL OPTION	ICT	1,220	1,838	-33.6%	1,230	-0.8%
IRON ORE 62 CHINA TSI PUT OPTION	ICT	640	600	6.7%	645	-0.8%
NYMEX PLATINUM	PO	10,271	2,748	273.8%	6,427	59.8%
PALLADIUM	PAO	1,946	2,101	-7.4%	2,707	-28.1%
SILVER	SO1	832	57	1,359.6%	504	65.1%
SILVER	SO2	259	71	264.8%	780	-66.8%
SILVER	SO3	118	9	1,211.1%	333	-64.6%
SILVER	SO4	0	3	-100.0%	16	-100.0%
SILVER	SO5	0	0	-	0	-
<b>TOTAL FUTURES GROUP</b>						
Ag Products Futures		0	59	-100.0%	0	-
Energy Futures		10,595,769	14,880,183	-28.8%	10,737,638	-1.3%
Metals Futures		1,178,441	1,170,298	0.7%	1,099,656	7.2%
<b>TOTAL FUTURES</b>		<b>11,774,210</b>	<b>16,050,540</b>	<b>-26.6%</b>	<b>11,837,294</b>	<b>-0.5%</b>



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Commodity	Open Interest MAY 2019	Open Interest MAY 2018	% CHG	Open Interest APR 2019	% CHG
<b>TOTAL OPTIONS GROUP</b>					
Energy Options	5,947,352	6,631,602	-10.3%	6,001,550	-0.9%
Metals Options	1,442,294	1,321,955	9.1%	1,597,809	-9.7%
<b>TOTAL OPTIONS</b>	<b>7,389,646</b>	<b>7,953,557</b>	<b>-7.1%</b>	<b>7,599,359</b>	<b>-2.8%</b>
<b>TOTAL COMBINED</b>					
Ag Products	0	59	-100.0%	0	-
Energy	16,543,121	21,511,785	-23.1%	16,739,188	-1.2%
Metals	2,620,735	2,492,253	5.2%	2,697,465	-2.8%
<b>GRAND TOTAL</b>	<b>19,163,856</b>	<b>24,004,097</b>	<b>-20.2%</b>	<b>19,436,653</b>	<b>-1.4%</b>