

## NYMEX/COMEX Exchange Open Interest Report - Monthly

	Commodity	Open Interest JUN 2019	Open Interest JUN 2018	% CHG	Open Interest MAY 2019	% CHG
Ag Products Futures						
COCOA TAS	CJ	0	0	-	0	-
COFFEE	KT	0	0	-	0	-
COTTON	TT	4	0	-	0	-
SUGAR 11	YO	0	58	-100.0%	0	-
Energy Futures						
CRUDE OIL PHY	CL	2,035,146	2,502,159	-18.7%	2,072,010	-1.8%
CRUDE OIL	WS	286	572	-50.0%	286	0.0%
MINY WTI CRUDE OIL	QM	7,073	4,711	50.1%	5,051	40.0%
BRENT OIL LAST DAY	BZ	246,216	211,992	16.1%	254,090	-3.1%
HEATING OIL PHY	HO	378,141	390,359	-3.1%	403,482	-6.3%
HTG OIL	BH	137	203	-32.5%	150	-8.7%
MINY HTG OIL	QH	1	1	0.0%	0	0.0%
RBOB PHY	RB	367,975	436,313	-15.7%	366,890	0.3%
MINY RBOB GAS	QU	1	0	-	0	0.0%
NATURAL GAS	HP	84,593	78,684	7.5%	82,052	3.1%
LTD NAT GAS	HH	356,608	421,061	-15.3%	362,375	-1.6%
MINY NATURAL GAS	QG	4,337	1,231	252.3%	2,487	74.4%
PJM MONTHLY	JM	280	1,130	-75.2%	320	-12.5%
NATURAL GAS PHY	NG	1,294,834	1,489,298	-13.1%	1,304,742	-0.8%
RBOB GAS	RT	100	83	20.5%	108	-7.4%
3.5% FUEL OIL CID MED SWA	7D	92	248	-62.9%	96	-4.2%
3.5% FUEL OIL CIF BALMO S	8D	0	0	-	0	-
AEP-DAYTON HUB DAILY	VD	38	68	-44.1%	28	35.7%
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	978	-100.0%	0	-
ARGUS LLS VS. WTI (ARG) T	E5	27,008	49,839	-45.8%	29,133	-7.3%
ARGUS PROPAN FAR EST INDE	7E	5,390	5,034	7.1%	5,348	0.8%
ARGUS PROPAN(SAUDI ARAMCO	9N	1,596	1,656	-3.6%	2,034	-21.5%
AUSTRIALIAN COKE COAL	ACT	0	0	-	0	-
AUSTRIALIAN COKE COAL	ALW	28	216	-87.0%	32	-12.5%
BRENT BALMO SWAP	J9	200	0	-	0	-
BRENT CALENDAR SWAP	CY	30,013	20,023	49.9%	26,150	14.8%
BRENT CFD SWAP	6W	0	0	-	0	-
BRENT FINANCIAL FUTURES	BB	158	3,848	-95.9%	158	0.0%
BRENT FINANCIAL FUTURES	MBC	82	0	-	82	0.0%
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	35	-100.0%	0	-
CENTERPOINT BASIS SWAP	PW	577	5,813	-90.1%	687	-16.0%
CHICAGO ETHANOL SWAP	CU	50,653	59,540	-14.9%	48,394	4.7%
CHICAGO ULSD (PLATTS) SWA	4C	0	0	-	0	-
CHICAGO ULSD PL VS HO SPR	5C	3,409	1,116	205.5%	3,193	6.8%
CHICAGO UNL GAS PL VS RBO	3C	466	625	-25.4%	553	-15.7%

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Energy Futures						
CIG BASIS	CI	3,360	14,916	-77.5%	3,912	-14.1%
CIG ROCKIES NG INDEX SWA	Z8	0	0	-	0	-
CINERGY HUB OFF-PEAK MONT	EJ	0	70	-100.0%	0	-
CINERGY HUB PEAK MONTH	EM	0	168	-100.0%	0	-
CIN HUB 5MW D AH O PK	K2	0	69,160	-100.0%	0	-
CIN HUB 5MW D AH PK	H5	816	6,916	-88.2%	1,057	-22.8%
CIN HUB 5MW REAL TIME O P	H4	91,904	316,584	-71.0%	101,904	-9.8%
CIN HUB 5MW REAL TIME PK	H3	10,119	27,640	-63.4%	11,419	-11.4%
COAL SWAP	ACM	0	205	-100.0%	0	-
COAL SWAP	SSI	0	0	-	0	-
COLUMB GULF MAINLINE NG B	5Z	900	2,000	-55.0%	954	-5.7%
COLUMBIA GULF ONSHORE	GL	0	0	-	0	-
CONWAY NATURAL GASOLINE (OPIS) SWAP	8L	1,135	1,146	-1.0%	1,326	-14.4%
CONWAY NORMAL BUTANE (OPIS) SWAP	8M	1,447	1,771	-18.3%	912	58.7%
CONWAY PROPANE 5 DECIMALS SWAP	8K	25,455	24,450	4.1%	20,857	22.0%
CRUDE OIL	LPS	19,875	19,200	3.5%	20,025	-0.7%
CRUDE OIL OUTRIGHTS	42	414	412	0.5%	490	-15.5%
CRUDE OIL OUTRIGHTS	CC5	1,280	0	-	960	33.3%
CRUDE OIL OUTRIGHTS	CPD	0	0	-	0	-
CRUDE OIL OUTRIGHTS	CSN	0	0	-	0	-
CRUDE OIL OUTRIGHTS	CSW	2,705	0	-	2,700	0.2%
CRUDE OIL OUTRIGHTS	DBL	400	0	-	0	-
CRUDE OIL OUTRIGHTS	FE	0	0	-	0	-
CRUDE OIL OUTRIGHTS	GSW	184	0	-	207	-11.1%
CRUDE OIL OUTRIGHTS	HTT	149,066	127,410	17.0%	144,091	3.5%
CRUDE OIL OUTRIGHTS	LSW	1,647	875	88.2%	1,653	-0.4%
CRUDE OIL OUTRIGHTS	SSW	0	0	-	0	-
CRUDE OIL OUTRIGHTS	UMD	0	200	-100.0%	0	-
CRUDE OIL OUTRIGHTS	UNS	0	1,000	-100.0%	0	-
CRUDE OIL OUTRIGHTS	WCC	0	800	-100.0%	0	-
CRUDE OIL OUTRIGHTS	WCW	13,035	19,504	-33.2%	15,445	-15.6%
CRUDE OIL PHY	CLL	0	0	0.0%	0	0.0%
CRUDE OIL PHY	HCL	3,659	0	-	4,884	-25.1%
CRUDE OIL SPRDS	38	0	1,485	-100.0%	0	-
CRUDE OIL SPRDS	HIL	720	0	-	720	0.0%
CRUDE OIL SPRDS	WTT	125,596	176,396	-28.8%	123,616	1.6%
CRUDE OIL TRADE AT MARKER SINGAPORE	CLS	0	0	0.0%	0	0.0%
DAILY PJM	AOR	3,168	3,600	-12.0%	3,840	-17.5%
DAILY PJM	IDO	16,064	16,640	-3.5%	11,776	36.4%
DAILY PJM	NOC	2,736	16,080	-83.0%	2,280	20.0%
DAILY PJM	PAP	270	650	-58.5%	250	8.0%
DAILY PJM	PEO	2,640	4,160	-36.5%	2,560	3.1%
DAILY PJM	PNO	17,952	24,440	-26.5%	17,408	3.1%
DAILY PJM	PNP	1,053	1,440	-26.9%	975	8.0%
DAILY PJM	PWO	16,896	24,440	-30.9%	16,384	3.1%
DAILY PJM	PWP	864	1,222	-29.3%	800	8.0%
DAILY PJM	WOR	8,928	20,400	-56.2%	14,160	-36.9%
DAILY PJM	ZAO	1,056	7,280	-85.5%	1,024	3.1%
DAILY PJM	ZGO	27,984	29,640	-5.6%	27,136	3.1%
DAILY PJM	ZJO	15,840	13,000	21.8%	15,360	3.1%
DATED BRENT (PLATTS) DAILY SWAP	7G	0	0	-	0	-
DATED TO FRONTLINE BRENT	FY	1,690	5,420	-68.8%	1,985	-14.9%
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	1,712	-100.0%	0	-
DOMINION TRANSMISSION INC	PG	6,822	20,083	-66.0%	7,422	-8.1%
DUBAI CRUDE OIL BALMO	BI	0	0	-	0	-
DUBAI CRUDE OIL CALENDAR	DC	4,955	2,721	82.1%	3,885	27.5%
DUTCH TTF NATURAL GAS CAL MONTH FUT	TTF	3,000	200	1,400.0%	2,520	19.0%
DY EURO 3.5% FUEL OI RDA	FOR	0	0	-	0	-
EASTERN RAIL DELIVERY CSX	QX	0	155	-100.0%	0	-
EAST/WEST FUEL OIL SPREAD	EW	41	97	-57.7%	35	17.1%
EIA FLAT TAX ONHWAY DIESE	A5	1,750	2,005	-12.7%	1,589	10.1%
ELEC ERCOT DLY OFF PK	I4	0	0	-	0	-
ELEC ERCOT DLY PEAK	I3	0	0	-	0	-
ELEC ERCOT DLY PEAK	I7	0	900	-100.0%	0	-
ELEC ERCOT OFF PEAK	I2	0	0	-	0	-
ELEC FINSETTLED	47	810	1,320	-38.6%	854	-5.2%
ELEC FINSETTLED	49	0	0	-	0	-
ELEC MISO PEAK	4L	0	2,220	-100.0%	0	-
ELEC MISO PEAK	55	0	0	-	0	-
ELEC NYISO OFF-PEAK	4M	0	41,535	-100.0%	0	-
ELEC NYISO OFF-PEAK	58	0	0	-	0	-
ELECTRICITY ERCOT PEAK	ERE	0	0	-	0	-
ELECTRICITY OFF PEAK	46	14,882	24,242	-38.6%	15,666	-5.0%
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	8,400	-100.0%	0	-
ERCOT NORTH ZMCPE 5MW OFFPEAK SWAP	I6	0	84,000	-100.0%	0	-
ERCOT NORTH ZMCPE 5MW PEAK	I5	0	3,150	-100.0%	0	-
ETHANOL	MTH	0	0	-	0	-
ETHANOL	Z1B	0	0	-	0	-
ETHANOL SWAP	MT2	395	100	295.0%	490	-19.4%
ETHANOL T2 FOB ROTT INCL DUTY SWAP	Z1	4,530	4,788	-5.4%	4,426	2.3%
EURO 1% FUEL OIL NEW BALM	KX	0	3	-100.0%	3	-100.0%
EURO 3.5% FUEL OIL RDAM B	KR	6	651	-99.1%	40	-85.0%
EURO 3.5% FUEL OIL SPREAD	FK	65	238	-72.7%	80	-18.8%
EURO-DENOMINATED PETRO PROD	NCP	0	0	-	0	-
EURO GASOIL 10PPM VS ICE	ET	0	324	-100.0%	0	-
EUROPE 1% FUEL OIL NWE CA	UF	391	179	118.4%	402	-2.7%
EUROPE 1% FUEL OIL RDAM C	UH	3	3	0.0%	3	0.0%
EUROPE 3.5% FUEL OIL MED	UI	92	291	-68.4%	133	-30.8%
EUROPE 3.5% FUEL OIL RDAM	UV	5,866	13,654	-57.0%	6,401	-8.4%
EUROPEAN GASOIL (ICE)	7F	35	154	-77.3%	48	-27.1%
EUROPEAN NAPHTHA BALMO	KZ	133	249	-46.6%	110	20.9%
EUROPEAN NAPHTHA CRACK SPR	EN	11,024	15,959	-30.9%	10,905	1.1%
EUROPE DATED BRENT SWAP	UB	985	150	556.7%	460	114.1%
EUROPE JET KERO NWE CALSW	UJ	23	24	-4.2%	25	-8.0%
EUROPE NAPHTHA CALSWAP	UN	2,705	3,101	-12.8%	2,987	-9.4%
EURO PROPANE CIF ARA SWA	PS	2,134	1,748	22.1%	2,091	2.1%
FLORIDA GAS ZONE3 BASIS S	FP	0	0	-	0	-
FREIGHT MARKETS	FLP	772	686	12.5%	851	-9.3%

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<b>Energy Futures</b>						
FREIGHT MARKETS	FRC	510	340	50.0%	350	45.7%
FREIGHT MARKETS	FRS	70	0	-	0	-
FREIGHT MARKETS	T2D	1,965	1,258	56.2%	2,520	-22.0%
FREIGHT MARKETS	TC6	0	60	-100.0%	0	-
FREIGHT MARKETS	TD3	20	0	-	40	-50.0%
FREIGHT MARKETS	TD8	10	0	-	20	-50.0%
FUEL OIL CRACK VS ICE	FO	8,409	12,695	-33.8%	8,807	-4.5%
FUEL OIL NWE CRACK VS ICE	FI	161	171	-5.8%	166	-3.0%
FUEL OIL (PLATS) CAR CM	1W	6	98	-93.9%	0	-
FUEL OIL (PLATS) CAR CN	1X	0	57	-100.0%	0	-
FUELOIL SWAP:CARGOES VS.B	FS	923	730	26.4%	1,039	-11.2%
GAS EURO-BOB OXY NWE BARGES	7H	5,555	6,851	-18.9%	5,486	1.3%
GAS EURO-BOB OXY NWE BARGES CRK	7K	26,718	35,571	-24.9%	26,957	-0.9%
GASOIL 0.1 CIF MED SWAP	Z4	0	0	-	0	-
GASOIL 0.1CIF MED VS ICE	Z5	0	5	-100.0%	0	-
GASOIL 0.1 CIF NWE VS ISE	TU	5	0	-	10	-50.0%
GASOIL 0.1 CIF VS ICE GAS	8W	0	0	-	0	-
GASOIL 0.1 RDAM BRGS VS I	WQ	11	124	-91.1%	10	10.0%
GASOIL 0.1 ROTTERDAM BARG	VL	53	380	-86.1%	59	-10.2%
GASOIL 10P CRG CIF NW VS	3V	0	0	-	0	-
GASOIL 10PPM VS ICE SWAP	TP	25	332	-92.5%	27	-7.4%
GASOIL BULLET SWAP	BG	0	0	-	0	-
GASOIL CALENDAR SWAP	GX	50	32	56.3%	52	-3.8%
GASOIL CRACK SPREAD CALEN	GZ	12,072	20,488	-41.1%	11,793	2.4%
GASOIL MINI CALENDAR SWAP	QA	647	573	12.9%	693	-6.6%
GERMAN POWER BASELOAD CAL MONTH FUT	DEB	1,238	59	1,998.3%	945	31.0%
GROUP THREE ULSD (PLATTS)	A7	33	155	-78.7%	39	-15.4%
GROUP THREE UNLEAD GAS (P	A9	0	425	-100.0%	0	-
GRP THREE ULSD(PLT)VS HEA	A6	10,013	10,335	-3.1%	10,270	-2.5%
GRP THREE UNL GS (PLT) VS	A8	3,701	3,618	2.3%	4,179	-11.4%
GULF COAST 3% FUEL OIL BA	VZ	324	919	-64.7%	385	-15.8%
GULF COAST JET FUEL CLNDR	GE	535	905	-40.9%	611	-12.4%
GULF COAST JET VS NYM 2 H	ME	32,335	30,122	7.3%	35,608	-9.2%
GULF COAST NO.6 FUEL OIL	MF	20,885	56,534	-63.1%	22,833	-8.5%
GULF COAST NO.6 FUEL OIL	MG	926	9,842	-90.6%	941	-1.6%
GULF COAST ULSD CALENDAR	LY	1,723	1,609	7.1%	1,576	9.3%
GULF COAST ULSD CRACK SPR	GY	430	945	-54.5%	470	-8.5%
HEATING OIL BALMO CLNDR S	1G	480	167	187.4%	0	-
HEATING OIL CRCK SPRD BAL	1H	0	0	-	18	-100.0%
HEATING OIL PHY	HOL	0	0	0.0%	0	0.0%
HENRY HUB BASIS SWAP	HB	6,432	2,836	126.8%	10,821	-40.6%
HENRY HUB FINANCIAL LAST	NBP	0	6	-100.0%	0	-
HENRY HUB FINANCIAL LAST	TTE	0	6	-100.0%	0	-
HENRY HUB INDEX SWAP FUTU	IN	11,472	2,464	365.6%	15,657	-26.7%
HENRY HUB SWAP	NN	947,252	1,087,984	-12.9%	956,361	-1.0%
HOUSTON SHIP CHANNEL BASI	NH	8,983	14,453	-37.8%	9,493	-5.4%
HUSTN SHIP CHNL PIPE SWP	XJ	0	0	-	0	-
ICE BRENT DUBAI SWAP	DB	42,420	46,975	-9.7%	37,746	12.4%
ICE GASOIL BALMO SWAP	U9	0	0	-	0	-
IN DELIVERY MONTH EUA	6T	0	3,698	-100.0%	0	-
INDIANA MISO	FAD	0	18,480	-100.0%	0	-
INDIANA MISO	FTD	3,600	8,400	-57.1%	3,000	20.0%
INDIANA MISO	FTM	0	0	-	0	-

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INDIANA MISO	PDD	540	1,308	-58.7%	350	54.3%
INDIANA MISO	PTD	455	581	-21.7%	525	-13.3%
INDONESIAN COAL	MCC	0	0	-	0	-
INDONESIAN COAL ICI4	ICI	874	110	694.5%	953	-8.3%
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	616	-80.4%	121	0.0%
JAPAN C&F NAPHTHA SWAP	JA	1,539	2,813	-45.3%	1,667	-7.7%
JAPAN NAPHTHA BALMO SWAP	E6	3	23	-87.0%	0	-
JET AV FUEL (P) CAR FM ICE GAS SWAP	1V	0	14	-100.0%	0	-
JET CIF NWE VS ICE	JC	243	472	-48.5%	285	-14.7%
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	4,744	4,263	11.3%	6,680	-29.0%
JKM LNG Futures	JKM	5,462	2,080	162.6%	5,637	-3.1%
LA CARB DIESEL (OPIS)	LX	0	0	-	0	-
LA CARB DIESEL (OPIS) SWA	KL	82	625	-86.9%	58	41.4%
LA CARBOB GASOLINE(OPIS)S	JL	325	575	-43.5%	325	0.0%
LA JET FUEL VS NYM NO 2 H	MQ	0	0	-	0	-
LA JET (OPIS) SWAP	JS	2,022	2,395	-15.6%	1,589	27.2%
LLS (ARGUS) CALENDAR SWAP	XA	399	0	-	419	-4.8%
LLS (ARGUS) VS WTI SWAP	WJ	19,541	36,195	-46.0%	21,720	-10.0%
LOS ANGELES CARB GASOLINE	MH	0	0	-	0	-
MARS (ARGUS) VS WTI SWAP	YX	5,915	10,470	-43.5%	5,830	1.5%
MARS (ARGUS) VS WTI TRD M	YV	25,877	21,543	20.1%	25,455	1.7%
MARS BLEND CRUDE OIL	MB	0	200	-100.0%	0	-
MCCLOSKEY ARA ARGS COAL	MTF	22,983	39,757	-42.2%	21,653	6.1%
MCCLOSKEY RCH BAY COAL	MFF	3,867	4,997	-22.6%	3,221	20.1%
MGF FUT	MGF	0	20	-100.0%	0	-
MGN1 SWAP FUT	MGN	410	454	-9.7%	340	20.6%
MICHIGAN BASIS	NF	1,587	3,582	-55.7%	1,617	-1.9%
MICHIGAN MISO	HMO	0	19,376	-100.0%	0	-
MICHIGAN MISO	HMW	0	1,036	-100.0%	0	-
MINI GAS EUROBOB OXY NWE ARGS BALMO	MEB	223	411	-45.7%	304	-26.6%
MINI RBOB V. EBOBARG NWE BRGS BALMO	MXR	560	446	25.6%	170	229.4%
MINI RBOB V. EBOB(ARGUS) NWE BRGS	MXB	5,462	2,760	97.9%	5,388	1.4%
MJC FUT	MJC	240	390	-38.5%	265	-9.4%
MNC FUT	MNC	6,605	5,111	29.2%	6,337	4.2%
MONT BELVIEU ETHANE 5 DECIMAL	C0	39,543	45,725	-13.5%	38,997	1.4%
MONT BELVIEU ETHANE OPIS BALMO	8C	225	80	181.3%	95	136.8%
MONT BELVIEU LDH PROPANE 5 DECIMAL	B0	136,034	127,318	6.8%	139,518	-2.5%
MONT BELVIEU LDH PROPANE OPIS BALMO	8O	2,957	1,816	62.8%	3,473	-14.9%
MONT BELVIEU NATURAL GASOLINE 5 DEC	7Q	16,063	19,938	-19.4%	16,399	-2.0%
MONT BELVIEU NATURAL GASOLINE BALMO	R0	935	500	87.0%	390	139.7%
MONT BELVIEU NORMAL BUTANE 5 DECIMAL	D0	53,672	44,431	20.8%	48,038	11.7%
MONT BELVIEU NORMAL BUTANE BALMO	8J	469	682	-31.2%	1,662	-71.8%
NAT GAS BASIS SWAP	TZ6	1,288	4,027	-68.0%	1,498	-14.0%
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	136,716	163,518	-16.4%	133,878	2.1%
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 JUN 2019	Open Interest JUN 2018	% CHG	Open Interest MAY 2019	% CHG
<b>Energy Futures</b>						
NEPOOL INTR HUB 5MW D AH	H2	353,617	471,941	-25.1%	366,553	-3.5%
NEPOOL INTR HUB 5MW D AH	U6	19,651	30,226	-35.0%	20,399	-3.7%
NEPOOL NE MASS 5MW D AH O	P8	8,307	14,040	-40.8%	9,483	-12.4%
NEPOOL NE MASS 5MW D AH P	P7	444	765	-42.0%	510	-12.9%
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	1,232	1,888	-34.7%	1,364	-9.7%
NEW YORK ETHANOL SWAP	EZ	1,486	2,000	-25.7%	1,013	46.7%
NEW YORK HUB ZONE G PEAK	GN	1,188	2,619	-54.6%	992	19.8%
NEW YORK HUB ZONE J PEAK	JN	1,760	1,170	50.4%	1,385	27.1%
NGPL MID-CONTINENT	NL	9,132	17,922	-49.0%	9,972	-8.4%
NGPL TEX/OK	PD	13,702	23,509	-41.7%	15,772	-13.1%
N ILLINOIS HUB DAILY	UD	98	178	-44.9%	68	44.1%
N ILLINOIS HUB MTHLY	UM	0	0	-	0	-
NO 2 UP-DOWN SPREAD CALEN	UT	125	463	-73.0%	200	-37.5%
NORTHERN NATURAL GAS DEMAR	PE	246	968	-74.6%	306	-19.6%
NORTHERN NATURAL GAS VENTU	PF	738	1,432	-48.5%	918	-19.6%
NORTHERN ILLINOIS OFF-PEA	UO	0	0	-	0	-
NORTHWEST ROCKIES BASIS S	NR	8,705	27,925	-68.8%	10,025	-13.2%
N ROCKIES PIPE SWAP	XR	0	0	-	0	-
NY1% VS GC SPREAD SWAP	VR	2,010	4,159	-51.7%	2,030	-1.0%
NY 2.2% FUEL OIL (PLATTS	Y3	0	0	-	0	-
NY 3.0% FUEL OIL (PLATTS	H1	150	175	-14.3%	225	-33.3%
NY HARBOR 1% FUEL OIL BAL	VK	0	0	-	0	-
NY HARBOR HEAT OIL SWP	MP	13,473	7,356	83.2%	12,906	4.4%
NY HARBOR LOW SULPUR GAS 1000MBBL	NLS	865	515	68.0%	890	-2.8%
NY HARBOR RESIDUAL FUEL 1	MM	1,115	2,115	-47.3%	1,080	3.2%
NY HARBOR RESIDUAL FUEL C	ML	0	0	-	0	-
NYH NO 2 CRACK SPREAD CAL	HK	2,712	4,753	-42.9%	3,239	-16.3%
NYISO A	KA	0	0	-	0	-
NYISO A OFF-PEAK	KB	0	0	-	0	-
NYISO CAPACITY	LHV	662	314	110.8%	709	-6.6%
NYISO CAPACITY	NNC	118	678	-82.6%	146	-19.2%
NYISO CAPACITY	NRS	192	1,250	-84.6%	227	-15.4%
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	13,298	37,038	-64.1%	14,082	-5.6%
NYISO ZONE A 5MW D AH PK	K3	1,272	4,968	-74.4%	1,536	-17.2%
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	430,690	660,694	-34.8%	451,466	-4.6%
NYISO ZONE G 5MW D AH PK	T3	17,331	30,261	-42.7%	18,167	-4.6%
NYISO ZONE J 5MW D AH O P	D4	73,326	203,841	-64.0%	85,086	-13.8%
NYISO ZONE J 5MW D AH PK	D3	6,096	14,821	-58.9%	7,306	-16.6%
NYMEX ALUMINUM FUTURES	AN	396	576	-31.3%	372	6.5%
NYMEX ULSD VS NYMEX HO	UY	0	0	-	0	-
NY ULSD (ARGUS) VS HEATING OIL	7Y	888	272	226.5%	998	-11.0%
ONEOK OKLAHOMA NG BASIS	8X	0	368	-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	30	0	-	0	-
ONTARIO POWER SWAPS	OPM	0	0	-	100	-100.0%
PANHANDLE BASIS SWAP FUTU	PH	3,031	9,171	-67.0%	3,391	-10.6%
PANHANDLE PIPE SWAP	XH	0	1,182	-100.0%	0	-
PERMIAN BASIS SWAP	PM	3,908	7,022	-44.3%	4,028	-3.0%
PETROCHEMICALS	22	78	72	8.3%	175	-55.4%
PETROCHEMICALS	32	108	76	42.1%	50	116.0%
PETROCHEMICALS	3NA	25	0	-	26	-3.8%
PETROCHEMICALS	51	12	23	-47.8%	17	-29.4%
PETROCHEMICALS	8I	4,746	5,962	-20.4%	4,724	0.5%
PETROCHEMICALS	91	888	694	28.0%	892	-0.4%
PETROCHEMICALS	HPE	0	0	-	0	-
PETROCHEMICALS	MAA	150	0	-	20	650.0%
PETROCHEMICALS	MAC	0	0	-	0	-
PETROCHEMICALS	MAE	624	320	95.0%	522	19.5%
PETROCHEMICALS	MAS	548	146	275.3%	398	37.7%
PETROCHEMICALS	MBE	475	830	-42.8%	605	-21.5%
PETROCHEMICALS	MNB	2,066	4,296	-51.9%	2,238	-7.7%
PETROCHEMICALS	MPS	826	330	150.3%	260	217.7%
PETRO CRCKS & SPRDS ASIA	JNC	0	0	-	0	-
PETRO CRCKS & SPRDS ASIA	STI	50	0	-	0	-
PETRO CRCKS & SPRDS ASIA	STR	690	100	590.0%	690	0.0%
PETRO CRCKS & SPRDS ASIA	STS	241	1,001	-75.9%	246	-2.0%
PETRO CRCKS & SPRDS NA	CRB	6,675	4,980	34.0%	8,535	-21.8%
PETRO CRCKS & SPRDS NA	EXR	3,828	3,986	-4.0%	3,958	-3.3%
PETRO CRCKS & SPRDS NA	FOC	1,400	575	143.5%	1,300	7.7%
PETRO CRCKS & SPRDS NA	GBB	448	1,295	-65.4%	350	28.0%
PETRO CRCKS & SPRDS NA	GCC	55	565	-90.3%	110	-50.0%
PETRO CRCKS & SPRDS NA	GCI	2,334	2,602	-10.3%	2,320	0.6%
PETRO CRCKS & SPRDS NA	GCM	0	21	-100.0%	0	-
PETRO CRCKS & SPRDS NA	GCU	12,775	38,670	-67.0%	14,177	-9.9%
PETRO CRCKS & SPRDS NA	GFC	0	0	-	0	-
PETRO CRCKS & SPRDS NA	HOB	9,462	6,321	49.7%	7,716	22.6%
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	0	-	0	-
PETRO CRCKS & SPRDS NA	NYH	0	0	-	0	-
PETRO CRCKS & SPRDS NA	RBB	19,169	16,281	17.7%	20,774	-7.7%
PETRO CRCKS & SPRDS NA	RVG	16,812	28,516	-41.0%	15,125	11.2%
PETRO CRCKS & SPRDS NA	SF3	136	75	81.3%	125	8.8%
PETRO CRK&SPRD EURO	1NB	2,651	4,252	-37.7%	3,200	-17.2%
PETRO CRK&SPRD EURO	1ND	0	0	-	0	-
PETRO CRK&SPRD EURO	43	27	354	-92.4%	50	-46.0%
PETRO CRK&SPRD EURO	BFR	20	0	-	40	-50.0%
PETRO CRK&SPRD EURO	BOB	2,893	4,802	-39.8%	3,054	-5.3%
PETRO CRK&SPRD EURO	EGB	0	0	-	0	-
PETRO CRK&SPRD EURO	EGN	0	0	-	0	-
PETRO CRK&SPRD EURO	EOB	25	93	-73.1%	30	-16.7%
PETRO CRK&SPRD EURO	EPN	1,409	1,460	-3.5%	1,418	-0.6%
PETRO CRK&SPRD EURO	EVC	2,556	7,049	-63.7%	2,872	-11.0%
PETRO CRK&SPRD EURO	FBT	20	0	-	40	-50.0%

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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	150	-100.0%	0	-
PETRO CRK&SPRD EURO	GOC	19	39	-51.3%	20	-5.0%
PETRO CRK&SPRD EURO	MGB	70	0	-	110	-36.4%
PETRO CRK&SPRD EURO	MUD	70	169	-58.6%	10	600.0%
PETRO CRK&SPRD EURO	NBB	0	20	-100.0%	0	-
PETRO CRK&SPRD EURO	NOB	1,699	1,958	-13.2%	1,867	-9.0%
PETRO CRK&SPRD EURO	SFB	0	80	-100.0%	0	-
PETROLEUM PRODUCTS	1NM	230	0	-	200	15.0%
PETROLEUM PRODUCTS	EWB	0	0	-	0	-
PETROLEUM PRODUCTS	EWG	4,095	7,691	-46.8%	3,888	5.3%
PETROLEUM PRODUCTS	JCC	20	0	-	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	0	75	-100.0%	50	-100.0%
PETROLEUM PRODUCTS ASIA	E6M	18	20	-10.0%	0	-
PETROLEUM PRODUCTS ASIA	MJN	2,422	2,529	-4.2%	2,124	14.0%
PETROLEUM PRODUCTS ASIA	MSB	0	0	-	0	-
PETRO OUTRIGHT EURO	0B	78	14	457.1%	88	-11.4%
PETRO OUTRIGHT EURO	0C	0	0	-	0	-
PETRO OUTRIGHT EURO	0D	3,521	5,569	-36.8%	4,039	-12.8%
PETRO OUTRIGHT EURO	0E	5	10	-50.0%	0	-
PETRO OUTRIGHT EURO	0F	739	1,221	-39.5%	957	-22.8%
PETRO OUTRIGHT EURO	1T	23	24	-4.2%	25	-8.0%
PETRO OUTRIGHT EURO	33	0	0	-	0	-
PETRO OUTRIGHT EURO	5L	10	70	-85.7%	60	-83.3%
PETRO OUTRIGHT EURO	63	10	35	-71.4%	5	100.0%
PETRO OUTRIGHT EURO	6L	0	0	-	0	-
PETRO OUTRIGHT EURO	7I	75	0	-	125	-40.0%
PETRO OUTRIGHT EURO	7R	51	153	-66.7%	95	-46.3%
PETRO OUTRIGHT EURO	88	0	10	-100.0%	0	-
PETRO OUTRIGHT EURO	CBB	0	0	-	0	-
PETRO OUTRIGHT EURO	CGB	0	0	-	0	-
PETRO OUTRIGHT EURO	CPB	202	16	1,162.5%	60	236.7%
PETRO OUTRIGHT EURO	EFF	6	0	-	0	-
PETRO OUTRIGHT EURO	EFM	9	0	-	3	200.0%
PETRO OUTRIGHT EURO	ENS	76	150	-49.3%	85	-10.6%
PETRO OUTRIGHT EURO	ESB	0	0	-	0	-
PETRO OUTRIGHT EURO	EWN	844	1,229	-31.3%	796	6.0%
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	-	60	0.0%
PETRO OUTRIGHT EURO	MBB	0	0	-	0	-
PETRO OUTRIGHT EURO	MBN	2,445	4,727	-48.3%	2,510	-2.6%
PETRO OUTRIGHT EURO	MEF	1,121	0	-	1,299	-13.7%
PETRO OUTRIGHT EURO	R53	48	0	-	24	100.0%
PETRO OUTRIGHT EURO	R5M	340	0	-	157	116.6%
PETRO OUTRIGHT EURO	R5O	131	0	-	121	8.3%
PETRO OUTRIGHT EURO	S5M	61	0	-	37	64.9%
PETRO OUTRIGHT EURO	SMU	0	128	-100.0%	0	-



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Commodity	Open Interest JUN 2019	Open Interest JUN 2018	% CHG	Open Interest MAY 2019	% CHG
<b>Energy Futures</b>					
PETRO OUTRIGHT EURO T0	9	70	-87.1%	9	0.0%
PETRO OUTRIGHT EURO T2B	0	0	-	0	-
PETRO OUTRIGHT EURO ULB	0	0	-	0	-
PETRO OUTRIGHT EURO V0	0	480	-100.0%	0	-
PETRO OUTRIGHT EURO X0	0	0	-	0	-
PETRO OUTRIGHT NA FCB	32	0	-	32	0.0%
PETRO OUTRIGHT NA FOM	0	0	-	0	-
PETRO OUTRIGHT NA JE	67	215	-68.8%	14	378.6%
PETRO OUTRIGHT NA JET	3,755	2,275	65.1%	3,200	17.3%
PETRO OUTRIGHT NA JTB	125	625	-80.0%	1,525	-91.8%
PETRO OUTRIGHT NA MBL	0	36	-100.0%	0	-
PETRO OUTRIGHT NA MEN	167	785	-78.7%	155	7.7%
PETRO OUTRIGHT NA MEO	3,247	5,142	-36.9%	3,348	-3.0%
PETRO OUTRIGHT NA MFD	285	70	307.1%	0	-
PETRO OUTRIGHT NA MMF	233	74	214.9%	251	-7.2%
PETRO OUTRIGHT NA NYT	0	0	-	0	-
PETRO OUTRIGHT NA XER	0	0	-	0	-
PJM AD HUB 5MW REAL TIME V3	192,618	271,402	-29.0%	177,718	8.4%
PJM AD HUB 5MW REAL TIME Z9	15,781	17,565	-10.2%	16,161	-2.4%
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	0	-	0	-
PJM ATSI ELEC MPD	0	0	-	0	-
PJM BGE DA OFF-PEAK R3	0	5,538	-100.0%	0	-
PJM BGE DA PEAK E3	0	296	-100.0%	0	-
PJM COMED 5MW D AH O PK D9	0	13,845	-100.0%	0	-
PJM COMED 5MW D AH PK D8	0	740	-100.0%	0	-
PJM DAILY JD	934	728	28.3%	828	12.8%
PJM DAYTON DA OFF-PEAK R7	56,605	85,936	-34.1%	58,565	-3.3%
PJM DAYTON DA PEAK D7	3,630	7,770	-53.3%	3,850	-5.7%
PJM JCPL DA OFF-PEAK F2	0	0	-	0	-
PJM JCPL DA PEAK J2	0	0	-	0	-
PJM NI HUB 5MW REAL TIME B3	6,597	21,233	-68.9%	7,577	-12.9%
PJM NI HUB 5MW REAL TIME B6	68,371	408,510	-83.3%	75,971	-10.0%
PJM NILL DA OFF-PEAK L3	67,218	251,646	-73.3%	80,546	-16.5%
PJM NILL DA PEAK N3	4,134	15,756	-73.8%	4,992	-17.2%
PJM OFF-PEAK LMP SWAP FUT JP	0	286	-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	69,225	23,400	195.8%	73,145	-5.4%
PJM PSEG DA PEAK L6	3,700	0	-	3,810	-2.9%
PJM WESTH DA OFF-PEAK E4	111,628	291,043	-61.6%	124,172	-10.1%
PJM WESTHDA PEAK J4	6,026	15,776	-61.8%	6,730	-10.5%
PJM WESTH RT OFF-PEAK N9	653,935	1,447,230	-54.8%	659,775	-0.9%
PJM WESTH RT PEAK L1	97,480	97,198	0.3%	100,824	-3.3%
PLASTICS PGP	3,329	722	361.1%	3,480	-4.3%
PREMIUM UNLND 10P FOB MED 3G	260	450	-42.2%	267	-2.6%
PREMIUM UNLEAD 10PPM FOB 8G	0	75	-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%	0	-

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	Commodity	Open Interest JUN 2019	Open Interest JUN 2018	% CHG	Open Interest MAY 2019	% CHG
<b>Energy Futures</b>						
PROPANE NON-LDH MB (OPIS) BALMO SWP	1S	1,442	525	174.7%	75	1,822.7%
PROPANE NON-LDH MT. BEL (OPIS) SWP	1R	61,928	51,360	20.6%	64,241	-3.6%
RBOB CALENDAR SWAP	RL	17,307	14,413	20.1%	17,106	1.2%
RBOB CRACK SPREAD	RM	4,496	6,599	-31.9%	5,729	-21.5%
RBOB CRACK SPREAD BALMO S	1E	0	0	-	25	-100.0%
RBOB GASOLINE BALMO CLNDR	1D	1,084	1,005	7.9%	805	34.7%
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	1,240	-94.0%	75	0.0%
SAN JUAN BASIS SWAP	NJ	3,623	13,972	-74.1%	4,793	-24.4%
SAN JUAN PIPE SWAP	XX	0	360	-100.0%	0	-
SINGAPORE 180CST BALMO	BS	5	40	-87.5%	10	-50.0%
SINGAPORE 380CST BALMO	BT	26	200	-87.0%	25	4.0%
SINGAPORE 380CST FUEL OIL	SE	5,290	13,574	-61.0%	5,691	-7.0%
SINGAPORE FUEL 180CST CAL	UA	481	1,592	-69.8%	574	-16.2%
SINGAPORE FUEL OIL SPREAD	SD	201	1,452	-86.2%	178	12.9%
SINGAPORE GASOIL	MAF	3,165	0	-	3,656	-13.4%
SINGAPORE GASOIL	MTB	51	15	240.0%	44	15.9%
SINGAPORE GASOIL	MTS	5,811	7,658	-24.1%	5,894	-1.4%
SINGAPORE GASOIL	STZ	0	2,975	-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	287	120	139.2%	312	-8.0%
SINGAPORE GASOIL CALENDAR	SGG	0	0	-	0	-
SINGAPORE GASOIL SWAP	SG	1,327	7,785	-83.0%	1,918	-30.8%
SINGAPORE GASOIL VS ICE	GA	12,515	45,890	-72.7%	14,775	-15.3%
SINGAPORE JET KERO BALMO	BX	0	50	-100.0%	0	-
SINGAPORE JET KERO GASOIL	RK	4,235	10,640	-60.2%	4,945	-14.4%
SINGAPORE JET KEROSENE SW	KS	1,685	2,795	-39.7%	1,415	19.1%
SINGAPORE JET KERO VS. GASOIL BALMO	ZO	0	0	-	0	-
SINGAPORE MOGAS 92 UNLEADED BALMO	1P	50	200	-75.0%	0	-
SINGAPORE MOGAS 92 UNLEADED SWP	1N	15,664	16,192	-3.3%	18,203	-13.9%
SINGAPORE NAPHTHA SWAP	SP	0	0	-	0	-
SING FUEL	MSD	0	15	-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	60	-100.0%	0	-
Sumas Basis Swap	NK	1,313	4,139	-68.3%	1,433	-8.4%
SUMAS NAT GAS PLATTS FIXED PRICE	DVS	0	0	-	0	-
TC2 ROTTERDAM TO USAC 37K	TM	354	247	43.3%	395	-10.4%
TC5 RAS TANURA TO YOKOHAM	TH	1,104	25	4,316.0%	1,290	-14.4%
TCO BASIS SWAP	TC	2,940	6,591	-55.4%	3,300	-10.9%
TCO NG INDEX SWAP	Q1	0	0	-	0	-
TD3 MEG TO JAPAN 250K MT	TL	12,125	2,849	325.6%	13,401	-9.5%
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	368	-100.0%	0	-
TEXAS EASTERN ZONE M-3 BA	NX	1,282	4,143	-69.1%	1,342	-4.5%
TEXAS GAS ZONE1 NG BASIS	9F	0	2,888	-100.0%	0	-

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	Commodity	Open Interest JUN 2019	Open Interest JUN 2018	% CHG	Open Interest MAY 2019	% CHG
<b>Energy Futures</b>						
Transco Zone 3 Basis	CZ	0	1,656	-100.0%	0	-
TRANSCO ZONE 3 NG INDEX S	Y6	0	0	-	0	-
TRANSCO ZONE4 BASIS SWAP	TR	2,343	5,442	-56.9%	2,479	-5.5%
TRANSCO ZONE 4 NAT GAS IN	B2	0	0	-	0	-
TRANSCO ZONE 6 BASIS SWAP	NZ	0	1,409	-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	80	505	-84.2%	120	-33.3%
ULSD 10PPM CIF MED SWAP	Z6	0	0	-	0	-
ULSD 10PPM CIF MED VS ICE	Z7	0	8	-100.0%	0	-
ULSD 10PPM CIF NW BALMO S	B1	0	0	-	0	-
ULSD UP-DOWN BALMO SWP	1L	4,500	4,390	2.5%	4,425	1.7%
UP DOWN GC ULSD VS NMX HO	LT	47,441	43,493	9.1%	48,749	-2.7%
WAHA BASIS	NW	1,429	4,271	-66.5%	1,749	-18.3%
WAHA INDEX SWAP FUTURE	IY	0	0	-	0	-
WESTERN RAIL DELIVERY PRB	QP	0	290	-100.0%	0	-
WTI-BRENT BULLET SWAP	BY	2,604	7,054	-63.1%	3,129	-16.8%
WTI-BRENT CALENDAR SWAP	BK	185,499	129,674	43.1%	181,167	2.4%
WTI CALENDAR	CS	185,191	178,756	3.6%	192,683	-3.9%
WTS (ARGUS) VS WTI SWAP	FF	64,027	58,863	8.8%	62,467	2.5%
WTS (ARGUS) VS WTI TRD MT	FH	5,524	3,528	56.6%	6,014	-8.1%
<b>Energy Options</b>						
12 MO GASOIL CAL SWAP SPR	GXZ	0	0	-	0	-
BRENT 1 MONTH CAL	AA	0	1,000	-100.0%	0	-
BRENT CALENDAR SWAP	BA	8,978	6,191	45.0%	8,507	5.5%
BRENT CRUDE OIL 12 M CSO	9Y	0	0	-	0	-
BRENT CRUDE OIL 1 M CSO	9C	23,850	157,658	-84.9%	25,350	-5.9%
BRENT CRUDE OIL 6 M CSO	9L	0	0	-	0	-
BRENT OIL LAST DAY	BE	64,775	104,533	-38.0%	63,595	1.9%
BRENT OIL LAST DAY	BZO	192,632	200,573	-4.0%	184,370	4.5%
BRENT OIL LAST DAY	OS	50	1,122	-95.5%	50	0.0%
COAL API2 INDEX	CLA	280	2,935	-90.5%	255	9.8%
COAL API2 INDEX	CQA	0	1,610	-100.0%	0	0.0%
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	10	-100.0%	0	-
COAL SWAP	RPF	0	125	-100.0%	0	-
CRUDE OIL	6Y	150	0	-	150	0.0%
CRUDE OIL 1MO	WA	564,481	470,050	20.1%	655,949	-13.9%
CRUDE OIL APO	AO	381,202	454,774	-16.2%	376,971	1.1%
CRUDE OIL CALNDR STRIP	6F	200	170	17.6%	200	0.0%
CRUDE OIL OUTRIGHTS	AH	0	50	-100.0%	0	-
CRUDE OIL OUTRIGHTS	DBP	0	0	-	0	-
CRUDE OIL OUTRIGHTS	WCI	0	3,350	-100.0%	0	-
CRUDE OIL PHY	CD	0	0	-	0	-
CRUDE OIL PHY	LC	43,738	42,705	2.4%	46,270	-5.5%
CRUDE OIL PHY	LO	2,404,811	2,894,816	-16.9%	2,416,847	-0.5%
CRUDE OIL PHY	LO1	4,477	2,917	53.5%	4,665	-4.0%
CRUDE OIL PHY	LO2	218	425	-48.7%	232	-6.0%
CRUDE OIL PHY	LO3	386	251	53.8%	166	132.5%
CRUDE OIL PHY	LO4	0	0	-	0	-

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Energy Options						
CRUDE OIL PHY	LO5	0	0	0.0%	0	0.0%
ELEC MISO PEAK	9T	0	0	-	0	-
ETHANOL	CE1	0	0	-	0	-
ETHANOL	CE3	0	150	-100.0%	0	-
ETHANOL SWAP	CVR	15,337	14,379	6.7%	12,943	18.5%
ETHANOL SWAP	GVR	1,680	2,606	-35.5%	1,800	-6.7%
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	327	440	-25.7%	382	-14.4%
HEATING OIL PHY	OH	53,374	40,131	33.0%	42,737	24.9%
HENRY HUB FINANCIAL LAST	E7	9,840	5,406	82.0%	10,040	-2.0%
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	-
MCCLOSKY ARA ARGS COAL	MTO	0	375	-100.0%	0	-
MCCLOSKY RCH BAY COAL	MFO	450	1,150	-60.9%	150	200.0%
NATURAL GAS	G10	0	0	-	0	-
NATURAL GAS 1 M CSO FIN	G4	28,000	14,991	86.8%	24,900	12.4%
NATURAL GAS 2 M CSO FIN	G2	625	1,000	-37.5%	75	733.3%
NATURAL GAS 3 M CSO FIN	G3	39,050	39,170	-0.3%	30,350	28.7%
NATURAL GAS 5 M CSO FIN	G5	1,100	0	-	250	340.0%
NATURAL GAS 6 M CSO FIN	G6	12,100	5,000	142.0%	11,350	6.6%
NATURAL GAS OPTION ON CALENDAR STRP	6J	10,904	12,486	-12.7%	10,484	4.0%
NATURAL GAS PHY	KD	0	0	0.0%	0	0.0%
NATURAL GAS PHY	LN	1,666,847	1,673,331	-0.4%	1,650,925	1.0%
NATURAL GAS PHY	ON	68,149	87,727	-22.3%	70,107	-2.8%
NATURAL GAS WINTER STRIP	6I	1,300	0	-	1,300	0.0%
N ROCKIES PIPE SWAP	ZR	2,424	2,166	11.9%	1,878	29.1%
NY HARBOR HEAT OIL SWP	AT	14,530	17,827	-18.5%	13,091	11.0%
NYISO ZONE G 5MW PEAK OPTIONS	9U	0	0	-	0	-
NYMEX EUROPEAN GASOIL APO	F7	0	0	-	0	-
PANHANDLE PIPE SWAP	PU	0	2,880	-100.0%	0	-
PETROCHEMICALS	4H	4,805	2,413	99.1%	2,198	118.6%
PETROCHEMICALS	4J	725	1,420	-48.9%	800	-9.4%
PETROCHEMICALS	4K	80	100	-20.0%	80	0.0%
PETROCHEMICALS	CPR	20	0	-	20	0.0%
PETRO OUTRIGHT EURO	8H	0	0	-	0	-
PETRO OUTRIGHT EURO	BCO	24	0	-	24	0.0%
PETRO OUTRIGHT NA	DAP	682	42	1,523.8%	608	12.2%
PJM WES HUB PEAK CAL MTH	6OA	1,200	1,780	-32.6%	820	46.3%
PJM WES HUB PEAK CAL MTH	JOA	0	0	-	0	-
PJM WES HUB PEAK LMP 50MW	PMA	1,061	8,298	-87.2%	1,567	-32.3%
RBOB 1MO CAL SPD OPTIONS	ZA	0	0	-	0	-
RBOB CALENDAR SWAP	RA	144	525	-72.6%	182	-20.9%
RBOB CRACK	RX	0	0	-	0	-
RBOB PHY	OB	18,555	10,712	73.2%	17,245	7.6%
RBOB PHY	RF	14	125	-88.8%	34	-58.8%
ROTTERDAM 3.5%FUEL OIL CL	Q6	0	0	-	0	-
SAN JUAN PIPE SWAP	PJ	1,274	1,974	-35.5%	910	40.0%
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	0	-	0	-
SHORT TERM NATURAL GAS	U02	0	270	-100.0%	0	-
SHORT TERM NATURAL GAS	U03	0	0	-	400	-100.0%
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	0.0%	0	-
SHORT TERM NATURAL GAS	U30	0	0	-	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	113,735	225,934	-49.7%	112,055	1.5%
WTI CRUDE OIL 1 M CSO FI	7A	163,460	153,125	6.7%	141,510	15.5%
<b>Metals Futures</b>						
COMEX GOLD	GC	588,661	478,221	23.1%	465,077	26.6%
NYMEX HOT ROLLED STEEL	HR	16,661	12,457	33.7%	17,610	-5.4%
NYMEX PLATINUM	PL	85,333	86,498	-1.3%	84,525	1.0%
PALLADIUM	PA	23,390	22,049	6.1%	19,416	20.5%
URANIUM	UX	2,761	2,690	2.6%	3,027	-8.8%
COMEX SILVER	SI	218,587	209,485	4.3%	209,964	4.1%
COMEX E-Mini GOLD	QO	1,507	861	75.0%	2,509	-39.9%
COMEX E-Mini SILVER	QI	229	298	-23.2%	231	-0.9%
COMEX COPPER	HG	247,820	266,333	-7.0%	282,827	-12.4%
COMEX MINY COPPER	QC	92	58	58.6%	124	-25.8%
ALUMINUM	A38	100	0	-	102	-2.0%
ALUMINUM	AEP	10,409	14,331	-27.4%	11,380	-8.5%
ALUMINUM	ALA	505	2,770	-81.8%	530	-4.7%
ALUMINUM	ALI	0	0	-	0	-
ALUMINUM	AUP	22,988	32,087	-28.4%	25,889	-11.2%

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<b>Metals Futures</b>						
ALUMINUM	CUP	0	80	-100.0%	0	-
ALUMINUM	EDP	9,668	10,105	-4.3%	10,270	-5.9%
ALUMINUM	MJP	5,806	8,952	-35.1%	6,467	-10.2%
COPPER	HGS	11,632	13,325	-12.7%	12,396	-6.2%
E-MICRO GOLD	MGC	19,385	10,337	87.5%	12,350	57.0%
FERROUS PRODUCTS	BUS	3,228	3,155	2.3%	3,652	-11.6%
GOLD	GPS	0	0	-	0	-
Gold Kilo	GCK	0	0	-	0	-
IRON ORE 62 CHINA PLATTS FUTURES	PIO	0	600	-100.0%	0	-
IRON ORE 62 CHINA TSI FUTURES	TIO	6,787	10,264	-33.9%	7,290	-6.9%
LNDN ZINC	ZNC	12	28	-57.1%	27	-55.6%
SILVER	SIL	1,885	1,537	22.6%	1,481	27.3%
<b>Metals Options</b>						
COMEX COPPER	HX	38,504	20,335	89.3%	46,676	-17.5%
COMEX GOLD	OG	1,488,207	1,190,505	25.0%	1,134,990	31.1%
COMEX SILVER	SO	180,751	190,624	-5.2%	232,836	-22.4%
COPPER	H1E	0	0	-	11	-100.0%
COPPER	H2E	0	0	-	0	-
COPPER	H3E	0	0	-	0	-
COPPER	H4E	0	0	-	0	-
COPPER	H5E	0	0	-	0	0.0%
GOLD	OG1	33,874	3,830	784.4%	7,601	345.7%
GOLD	OG2	7,660	1,182	548.1%	3,218	138.0%
GOLD	OG3	3,306	208	1,489.4%	955	246.2%
GOLD	OG4	0	0	-	0	-
GOLD	OG5	0	0	0.0%	0	0.0%
HOT ROLLED COIL STEEL CALL OPTION	HRO	600	600	0.0%	650	-7.7%
IRON ORE 62 CHINA TSI CALL OPTION	ICT	1,210	1,650	-26.7%	1,220	-0.8%
IRON ORE 62 CHINA TSI PUT OPTION	ICT	635	640	-0.8%	640	-0.8%
NYMEX PLATINUM	PO	9,144	5,816	57.2%	10,271	-11.0%
PALLADIUM	PAO	2,442	2,518	-3.0%	1,946	25.5%
SILVER	SO1	1,830	405	351.9%	832	120.0%
SILVER	SO2	270	84	221.4%	259	4.2%
SILVER	SO3	46	99	-53.5%	118	-61.0%
SILVER	SO4	0	0	-	0	-
SILVER	SO5	0	0	0.0%	0	0.0%
<b>TOTAL FUTURES GROUP</b>						
Ag Products Futures		4	58	-93.1%	0	-
Energy Futures		10,366,667	14,254,884	-27.3%	10,570,049	-1.9%
Metals Futures		1,277,446	1,186,521	7.7%	1,177,144	8.5%
<b>TOTAL FUTURES</b>		<b>11,644,117</b>	<b>15,441,463</b>	<b>-24.6%</b>	<b>11,747,193</b>	<b>-0.9%</b>





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Commodity	Open Interest JUN 2019	Open Interest JUN 2018	% CHG	Open Interest MAY 2019	% CHG
<b>TOTAL OPTIONS GROUP</b>					
Energy Options	5,923,044	6,675,023	-11.3%	5,945,792	-0.4%
Metals Options	1,768,479	1,418,496	24.7%	1,442,223	22.6%
<b>TOTAL OPTIONS</b>	<b>7,691,523</b>	<b>8,093,519</b>	<b>-5.0%</b>	<b>7,388,015</b>	<b>4.1%</b>
<b>TOTAL COMBINED</b>					
Ag Products	4	58	-93.1%	0	-
Energy	16,289,711	20,929,907	-22.2%	16,515,841	-1.4%
Metals	3,045,925	2,605,017	16.9%	2,619,367	16.3%
<b>GRAND TOTAL</b>	<b>19,335,640</b>	<b>23,534,982</b>	<b>-17.8%</b>	<b>19,135,208</b>	<b>1.0%</b>