



NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME NOV 2018	VOLUME NOV 2017	% CHG	VOLUME OCT 2018	% CHG	VOLUME Y.T.D 2018	VOLUME Y.T.D 2017	% CHG
Ag Products Futures									
COCOA TAS	CJ	0	1	-100.0%	0	0.0%	5	87	-94.3%
COFFEE	KT	0	1	-100.0%	0	0.0%	0	41	-100.0%
COTTON	TT	1	3	-66.7%	7	-85.7%	21	19	10.5%
SUGAR 11	YO	0	0	0.0%	0	0.0%	58	42	38.1%
Energy Futures									
CRUDE OIL PHY	CL	27,570,561	27,635,706	-0.2%	24,506,904	12.5%	283,704,314	289,848,062	-2.1%
CRUDE OIL	WS	0	15,209	-100.0%	0	0.0%	15,639	74,500	-79.0%
MINY WTI CRUDE OIL	QM	615,655	235,179	161.8%	469,979	31.0%	4,074,872	2,834,261	43.8%
BRENT OIL LAST DAY	BZ	2,270,269	1,570,370	44.6%	2,269,787	0.0%	20,164,866	20,545,281	-1.9%
HEATING OIL PHY	HO	4,516,781	3,549,278	27.3%	3,966,113	13.9%	43,038,884	40,091,791	7.4%
HTG OIL	BH	24	0	0.0%	12	100.0%	120	340	-64.7%
MINY HTG OIL	QH	4	4	0.0%	4	0.0%	44	32	37.5%
RBOB PHY	RB	3,953,762	3,717,345	6.4%	4,626,302	-14.5%	46,209,208	46,542,436	-0.7%
MINY RBOB GAS	QU	6	4	50.0%	4	50.0%	43	47	-8.5%
NATURAL GAS	HP	217,970	114,877	89.7%	106,595	104.5%	1,344,513	1,516,795	-11.4%
LTD NAT GAS	HH	636,172	313,343	103.0%	461,203	37.9%	4,184,755	3,223,958	29.8%
MINY NATURAL GAS	QG	112,587	28,377	296.8%	47,272	138.2%	387,461	271,600	42.7%
PJM MONTHLY	JM	0	0	0.0%	0	0.0%	0	120	-100.0%
NATURAL GAS PHY	NG	14,219,346	10,006,515	42.1%	12,263,891	15.9%	106,404,804	97,891,189	8.7%
RBOB GAS	RT	0	1,850	-100.0%	12	-100.0%	14,386	26,546	-45.8%
3.5% FUEL OIL CID MED SWA	7D	0	70	-100.0%	40	-100.0%	612	1,035	-40.9%
3.5% FUEL OIL CIF BALMO S	8D	0	0	0.0%	0	0.0%	95	175	-45.7%
AEP-DAYTON HUB DAILY	VD	0	0	0.0%	0	0.0%	0	0	0.0%
AEP-DAYTON HUB MTHLY	VM	0	0	0.0%	0	0.0%	0	0	0.0%
AEP-DAYTON HUB OFF-PEAK M	VP	0	0	0.0%	0	0.0%	0	0	0.0%
ALGON CITY GATES NAT GAS	N7	0	0	0.0%	0	0.0%	0	0	0.0%
ALGONQUIN CITYGATES BASIS	B4	0	0	0.0%	0	0.0%	0	0	0.0%
ANR LOUISIANA BASIS SWAP	ND	0	0	0.0%	0	0.0%	0	0	0.0%
ANR OKLAHOMA	NE	0	0	0.0%	0	0.0%	0	0	0.0%
APPALACHIAN COAL (PHY)	QL	0	0	0.0%	0	-	0	0	0.0%
ARGUS LLS VS. WTI (ARG) T	E5	18,221	55,150	-67.0%	23,356	-22.0%	241,016	159,972	50.7%
ARGUS PROPAN FAR EST INDE	7E	5,595	3,932	42.3%	7,829	-28.5%	65,519	28,462	130.2%

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Energy Futures									
ARGUS PROPAN(SAUDI ARAMCO	9N	2,726	1,106	146.5%	3,203	-14.9%	31,145	11,496	170.9%
AUSTRIALIAN COKE COAL	ACT	0	120	-100.0%	0	0.0%	20	120	-83.3%
AUSTRIALIAN COKE COAL	ALW	0	0	0.0%	0	0.0%	0	1,003	-100.0%
BRENT BALMO SWAP	J9	0	0	0.0%	0	0.0%	285	578	-50.7%
BRENT CALENDAR SWAP	CY	2,125	2,555	-16.8%	5,313	-60.0%	38,237	30,743	24.4%
BRENT CFD SWAP	6W	0	0	-	0	0.0%	300	0	-
BRENT FINANCIAL FUTURES	BB	1,000	1,010	-1.0%	3,600	-72.2%	20,864	43,043	-51.5%
BRENT FINANCIAL FUTURES	MBC	0	0	0.0%	0	0.0%	127	0	0.0%
BRENT FINANCIAL FUTURES	MDB	0	52	-100.0%	0	0.0%	224	330	-32.1%
BRENT OIL LAST DAY	BZL	0	0	0.0%	0	0.0%	0	0	0.0%
BRENT OIL LAST DAY	BZS	0	0	0.0%	0	0.0%	0	0	0.0%
CAISO SP15 EZGNHUB5 MW P	9X	0	0	0.0%	0	0.0%	0	7,940	-100.0%
CAISO SP15 EZGNHUB5 PEAK	9Z	0	0	0.0%	0	0.0%	0	0	0.0%
CANADIAN LIGHT SWEET OIL	CIL	0	0	0.0%	0	0.0%	0	7,344	-100.0%
CENTERPOINT BASIS SWAP	PW	0	465	-100.0%	0	0.0%	36	999	-96.4%
CENTERPOINT EAST INDEX	II	0	0	0.0%	0	-	0	0	0.0%
CEU ENERGY	DEB	1,377	0	-	0	0.0%	4,479	0	-
CEU ENERGY	TTF	3,685	0	-	242	1,422.7%	18,081	0	-
CEU ENERGY	UKG	2,031	0	-	327	521.1%	48,412	0	-
CHICAGO ETHANOL SWAP	CU	87,007	109,511	-20.5%	77,796	11.8%	1,054,398	1,247,194	-15.5%
CHICAGO ULSD (PLATTS) SWA	4C	0	0	0.0%	0	0.0%	0	0	0.0%
CHICAGO ULSD PL VS HO SPR	5C	932	155	501.3%	325	186.8%	5,007	1,638	205.7%
CHICAGO UNL GAS PL VS RBO	3C	0	0	0.0%	0	0.0%	950	0	0.0%
CIG BASIS	CI	0	730	-100.0%	25	-100.0%	221	1,456	-84.8%
CIG ROCKIES NG INDEX SWA	Z8	0	0	0.0%	0	0.0%	0	720	-100.0%
CINERGY HUB OFF-PEAK MONT	EJ	0	0	0.0%	0	0.0%	0	0	0.0%
CINERGY HUB PEAK MONTH	EM	0	0	0.0%	0	0.0%	0	0	0.0%
CIN HUB 5MW D AH O PK	K2	0	0	0.0%	0	0.0%	0	326,080	-100.0%
CIN HUB 5MW D AH PK	H5	538	600	-10.3%	846	-36.4%	12,376	18,293	-32.3%
CIN HUB 5MW REAL TIME O P	H4	0	0	0.0%	0	0.0%	0	397,000	-100.0%
CIN HUB 5MW REAL TIME PK	H3	0	0	0.0%	0	0.0%	1,505	25,625	-94.1%
COAL SWAP	ACM	60	70	-14.3%	0	0.0%	570	1,675	-66.0%
COAL SWAP	SSI	0	0	0.0%	0	0.0%	0	0	0.0%
COLUMB GULF MAINLINE NG B	5Z	0	0	0.0%	0	0.0%	0	999	-100.0%
COLUMBIA GULF MAIN NAT G	L2	0	0	0.0%	0	-	0	0	0.0%
COLUMBIA GULF ONSHORE	GL	0	0	0.0%	0	0.0%	0	1,332	-100.0%

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Energy Futures									
CONWAY NATURAL GASOLINE (OPIS) SWAP	8L	916	120	663.3%	114	703.5%	2,654	2,950	-10.0%
CONWAY NORMAL BUTANE (OPIS) SWAP	8M	70	75	-6.7%	90	-22.2%	2,831	8,040	-64.8%
CONWAY PROPANE 5 DECIMALS SWAP	8K	13,728	10,550	30.1%	16,869	-18.6%	175,002	99,017	76.7%
CRUDE OIL	CHB	0	0	0.0%	0	-	0	0	0.0%
CRUDE OIL	LPS	3,600	2,814	27.9%	3,450	4.3%	48,985	42,069	16.4%
CRUDE OIL OUTRIGHTS	37	0	0	0.0%	0	-	0	0	0.0%
CRUDE OIL OUTRIGHTS	42	192	140	37.1%	223	-13.9%	2,677	5,787	-53.7%
CRUDE OIL OUTRIGHTS	CC5	30	0	0.0%	210	-85.7%	330	600	-45.0%
CRUDE OIL OUTRIGHTS	CPD	0	0	-	0	0.0%	2,956	0	-
CRUDE OIL OUTRIGHTS	CSN	0	0	0.0%	0	0.0%	0	30	-100.0%
CRUDE OIL OUTRIGHTS	CSW	30	155	-80.6%	0	0.0%	2,315	2,705	-14.4%
CRUDE OIL OUTRIGHTS	DBL	0	411	-100.0%	0	0.0%	99	2,036	-95.1%
CRUDE OIL OUTRIGHTS	FE	0	0	0.0%	0	0.0%	0	330	-100.0%
CRUDE OIL OUTRIGHTS	GSW	0	45	-100.0%	0	0.0%	105	200	-47.5%
CRUDE OIL OUTRIGHTS	HTT	38,047	42,980	-11.5%	53,916	-29.4%	529,495	210,365	151.7%
CRUDE OIL OUTRIGHTS	LSW	0	1,215	-100.0%	15	-100.0%	335	4,125	-91.9%
CRUDE OIL OUTRIGHTS	SSW	0	0	0.0%	0	0.0%	0	960	-100.0%
CRUDE OIL OUTRIGHTS	UMD	0	0	-	0	0.0%	4,800	0	-
CRUDE OIL OUTRIGHTS	UNS	0	0	-	0	0.0%	7,554	0	-
CRUDE OIL OUTRIGHTS	WCC	0	0	0.0%	0	0.0%	0	24,737	-100.0%
CRUDE OIL OUTRIGHTS	WCW	2,162	17,085	-87.3%	2,495	-13.3%	65,018	72,796	-10.7%
CRUDE OIL PHY	CLL	0	0	0.0%	0	0.0%	0	0	0.0%
CRUDE OIL PHY	HCL	10,095	0	-	0	-	10,095	0	-
CRUDE OIL SPRDS	38	0	0	0.0%	0	0.0%	2,055	0	0.0%
CRUDE OIL SPRDS	WTT	10,718	42,885	-75.0%	8,438	27.0%	415,278	140,564	195.4%
CRUDE OIL TRADE AT MARKER SINGAPORE	CLS	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	AOR	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	IDO	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	NOC	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	PAP	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	PEO	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	PNO	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	PNP	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	PWO	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	PWP	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	WOR	0	0	0.0%	0	0.0%	0	0	0.0%



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Energy Futures									
DAILY PJM	ZAO	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	ZGO	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	ZJO	0	0	0.0%	0	0.0%	0	0	0.0%
DATED BRENT (PLATTS) DAILY SWAP	7G	0	0	0.0%	0	0.0%	0	1,400	-100.0%
DATED TO FRONTLINE BRENT	FY	0	400	-100.0%	150	-100.0%	3,360	14,450	-76.7%
DEMARC INDEX FUTURE	DI	0	0	0.0%	0	-	0	0	0.0%
DEMARC SWING SWAP	DT	0	0	0.0%	0	-	0	0	0.0%
DIESEL 10P BRG FOB RDM VS	7X	0	0	0.0%	0	0.0%	5	0	0.0%
DIESEL 10PPM BARGES FOB B	U7	0	0	0.0%	0	0.0%	0	3	-100.0%
DLY GAS EURO-BOB OXY	GBR	0	0	0.0%	0	-	0	0	0.0%
DOMINION TRAN INC - APP I	IH	0	2,920	-100.0%	0	0.0%	0	2,920	-100.0%
DOMINION TRANSMISSION INC	PG	0	4,508	-100.0%	0	0.0%	126	53,117	-99.8%
DUBAI CRUDE OIL BALMO	BI	0	0	0.0%	0	0.0%	125	0	0.0%
DUBAI CRUDE OIL CALENDAR	DC	15,305	4,162	267.7%	47,370	-67.7%	99,807	81,936	21.8%
DY EURO 3.5% FUEL OI RDA	FOR	0	0	0.0%	0	0.0%	0	1,500	-100.0%
EASTERN RAIL DELIVERY CSX	QX	0	15	-100.0%	0	0.0%	245	4,855	-95.0%
EAST/WEST FUEL OIL SPREAD	EW	0	0	0.0%	0	0.0%	187	1,255	-85.1%
EIA FLAT TAX ONHWAY DIESE	A5	313	116	169.8%	308	1.6%	3,170	7,644	-58.5%
ELEC ERCOT DLY OFF PK	I4	0	0	-	0	0.0%	0	0	-
ELEC ERCOT DLY OFF PK	R4	0	0	0.0%	0	-	0	0	0.0%
ELEC ERCOT DLY PEAK	I3	0	0	-	0	0.0%	0	0	-
ELEC ERCOT DLY PEAK	I7	0	0	0.0%	0	0.0%	0	0	0.0%
ELEC ERCOT DLY PEAK	N1	0	0	0.0%	0	-	0	0	0.0%
ELEC ERCOT DLY PEAK	R1	0	0	0.0%	0	-	0	0	0.0%
ELEC ERCOT OFF PEAK	I2	0	0	-	0	0.0%	19,600	0	-
ELEC FINSETTLED	47	0	0	0.0%	0	0.0%	0	0	0.0%
ELEC FINSETTLED	49	0	0	0.0%	0	0.0%	0	0	0.0%
ELEC MISO PEAK	4L	0	0	0.0%	0	0.0%	0	3,825	-100.0%
ELEC MISO PEAK	55	0	0	0.0%	0	0.0%	0	0	0.0%
ELEC NYISO OFF-PEAK	4M	0	0	0.0%	0	0.0%	0	70,200	-100.0%
ELEC NYISO OFF-PEAK	58	0	0	0.0%	0	0.0%	0	0	0.0%
ELECTRICITY ERCOT PEAK	ERE	0	0	0.0%	0	0.0%	0	690	-100.0%
ELECTRICITY OFF PEAK	46	0	0	0.0%	0	0.0%	0	0	0.0%
ELECTRICITY OFF PEAK	4P	55,380	0	0.0%	0	-	55,380	0	0.0%
ELECTRICITY OFF PEAK	50	0	0	0.0%	0	0.0%	0	0	0.0%
ELEC WEST POWER OFF-PEAK	MDA	0	0	0.0%	0	0.0%	0	0	0.0%

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Energy Futures									
ELEC WEST POWER PEAK	MDC	0	0	0.0%	0	0.0%	0	1,540	-100.0%
EL PASO PERMIAN INDEX SWA	IL	0	0	0.0%	0	-	0	0	0.0%
ERCOT DAILY 5MW PEAK	ERW	0	0	0.0%	0	0.0%	0	0	0.0%
ERCOT HOUSTON Z MCPE 5MW PEAK SWAP	I1	0	0	0.0%	0	0.0%	1,950	3,880	-49.7%
ERCOT NORTH ZMCPE 5MW OFFPEAK	I8	0	0	0.0%	0	0.0%	0	0	0.0%
ERCOT NORTH ZMCPE 5MW OFFPEAK SWAP	I6	0	39,200	-100.0%	0	0.0%	19,600	115,120	-83.0%
ERCOT NORTH ZMCPE 5MW PEAK	I5	0	2,100	-100.0%	0	0.0%	5,050	6,810	-25.8%
ETHANOL SWAP	MT2	270	0	-	70	285.7%	670	0	-
ETHANOL T2 FOB ROTT INCL DUTY SWAP	Z1	6,461	5,559	16.2%	4,996	29.3%	37,812	44,045	-14.2%
EURO 1% FUEL OIL NEW BALM	KX	0	0	0.0%	0	0.0%	33	18	83.3%
EURO 3.5% FUEL OIL RDAM B	KR	235	740	-68.2%	162	45.1%	5,674	4,877	16.3%
EURO 3.5% FUEL OIL SPREAD	FK	0	180	-100.0%	6	-100.0%	840	4,466	-81.2%
EURO-DENOMINATED PETRO PROD	NCP	0	0	0.0%	0	0.0%	640	1,514	-57.7%
EURO GASOIL 10 CAL SWAP	GT	0	0	0.0%	0	-	0	0	0.0%
EURO GASOIL 10PPM VS ICE	ET	0	5	-100.0%	0	0.0%	370	430	-14.0%
EUROPE 1% FUEL OIL NWE CA	UF	120	0	0.0%	60	100.0%	546	709	-23.0%
EUROPE 1% FUEL OIL RDAM C	UH	0	0	0.0%	0	0.0%	3	39	-92.3%
EUROPE 3.5% FUEL OIL MED	UI	4	320	-98.8%	159	-97.5%	991	1,701	-41.7%
EUROPE 3.5% FUEL OIL RDAM	UV	3,205	8,695	-63.1%	3,333	-3.8%	77,095	78,083	-1.3%
EUROPEAN GASOIL (ICE)	7F	1,254	1,490	-15.8%	1,354	-7.4%	6,929	30,820	-77.5%
EUROPEAN NAPHTHA BALMO	KZ	184	135	36.3%	447	-58.8%	3,039	3,656	-16.9%
EUROPEAN NAPHTHA CRACK SPR	EN	8,523	7,541	13.0%	15,958	-46.6%	103,391	75,329	37.3%
EUROPE DATED BRENT SWAP	UB	2,520	0	0.0%	1,110	127.0%	4,720	2,540	85.8%
EUROPE JET KERO NWE CALSW	UJ	0	0	0.0%	0	0.0%	39	105	-62.9%
EUROPE NAPHTHA CALSWAP	UN	2,614	1,963	33.2%	5,204	-49.8%	38,106	29,707	28.3%
EURO PROPANE CIF ARA SWA	PS	2,051	1,740	17.9%	2,914	-29.6%	20,318	14,275	42.3%
FL GAS ZONE 3 NAT GAS IND	Q9	0	0	0.0%	0	-	0	0	0.0%
FLORIDA GAS ZONE3 BASIS S	FP	0	0	0.0%	0	0.0%	0	0	0.0%
FREIGHT MARKETS	FLP	337	18	1,772.2%	565	-40.4%	2,185	1,622	34.7%
FREIGHT MARKETS	FRC	0	0	-	0	0.0%	600	0	-
FREIGHT MARKETS	FRS	0	0	-	0	0.0%	0	0	-
FREIGHT MARKETS	T2D	1,215	0	-	960	26.6%	4,673	0	-
FREIGHT MARKETS	TC6	0	0	-	0	0.0%	240	0	-
FREIGHT MARKETS	TD3	0	0	-	0	0.0%	30	0	-
FREIGHT MARKETS	TD8	0	0	-	150	-100.0%	150	0	-
FUEL OIL CRACK VS ICE	FO	1,442	1,588	-9.2%	2,815	-48.8%	37,502	39,399	-4.8%

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FUEL OIL NWE CRACK VS ICE	FI	0	0	0.0%	0	0.0%	171	0	0.0%
FUEL OIL (PLATS) CAR CM	1W	0	0	0.0%	0	0.0%	154	20	670.0%
FUEL OIL (PLATS) CAR CN	1X	0	0	0.0%	0	0.0%	120	0	0.0%
FUELOIL SWAP:CARGOES VS.B	FS	15	171	-91.2%	96	-84.4%	2,129	2,974	-28.4%
GAS EURO-BOB OXY NWE BARGES	7H	5,318	3,197	66.3%	7,156	-25.7%	81,582	68,825	18.5%
GAS EURO-BOB OXY NWE BARGES CRK	7K	12,780	17,089	-25.2%	21,056	-39.3%	198,152	208,435	-4.9%
GASOIL 0.1 BRGS FOB VS IC	6V	0	0	0.0%	0	-	0	0	0.0%
GASOIL 0.1 CIF MED SWAP	Z4	0	0	0.0%	0	0.0%	0	0	0.0%
GASOIL 0.1CIF MED VS ICE	Z5	0	0	0.0%	0	0.0%	10	50	-80.0%
GASOIL 0.1 CIF NWE VS ISE	TU	0	0	0.0%	0	0.0%	0	0	0.0%
GASOIL 0.1 CIF VS ICE GAS	8W	0	0	0.0%	0	0.0%	0	20	-100.0%
GASOIL 0.1 CRG CIF NW VS	4V	0	0	0.0%	0	-	0	0	0.0%
GASOIL 0.1 RDAM BRGS VS I	WQ	0	120	-100.0%	0	0.0%	10	294	-96.6%
GASOIL 0.1 ROTTERDAM BARG	VL	26	45	-42.2%	15	73.3%	1,496	155	865.2%
GASOIL 10P CRG CIF NW VS	3V	0	0	0.0%	0	0.0%	0	25	-100.0%
GASOIL 10PPM CARGOES CIF	TY	0	0	0.0%	0	-	0	0	0.0%
GASOIL 10PPM VS ICE SWAP	TP	0	15	-100.0%	0	0.0%	12	727	-98.3%
GASOIL BULLET SWAP	BG	0	0	0.0%	0	0.0%	0	130	-100.0%
GASOIL CALENDAR SWAP	GX	12	0	0.0%	0	0.0%	66	244	-73.0%
GASOIL CRACK SPREAD CALEN	GZ	604	7,395	-91.8%	100	504.0%	38,106	75,163	-49.3%
GASOIL MINI CALENDAR SWAP	QA	803	119	574.8%	312	157.4%	2,827	1,469	92.4%
GASOLINE UP-DOWN BALMO SW	1K	0	0	0.0%	0	-	0	0	0.0%
GROUP THREE ULSD (PLATTS)	A7	45	0	0.0%	0	0.0%	250	125	100.0%
GROUP THREE UNLEAD GAS (P	A9	0	0	-	0	0.0%	425	0	-
GRP THREE ULSD(PLT)VS HEA	A6	3,826	5,535	-30.9%	3,515	8.8%	39,259	47,830	-17.9%
GRP THREE UNL GS (PLT) VS	A8	1,735	2,005	-13.5%	3,485	-50.2%	23,342	12,139	92.3%
GULF COAST 3% FUEL OIL BA	VZ	703	1,132	-37.9%	1,162	-39.5%	13,602	12,737	6.8%
GULF COAST GASOLINE CLNDR	GS	0	0	0.0%	0	-	0	0	0.0%
GULF COAST JET FUEL CLNDR	GE	207	45	360.0%	0	0.0%	1,402	988	41.9%
GULF COAST JET VS NYM 2 H	ME	22,758	27,375	-16.9%	22,133	2.8%	387,389	455,089	-14.9%
GULF COAST NO.6 FUEL OIL	MF	30,573	59,771	-48.8%	42,559	-28.2%	577,851	570,037	1.4%
GULF COAST NO.6 FUEL OIL	MG	830	5,278	-84.3%	682	21.7%	17,306	17,681	-2.1%
GULF COAST ULSD CALENDAR	LY	254	54	370.4%	431	-41.1%	3,573	5,574	-35.9%
GULF COAST ULSD CRACK SPR	GY	240	0	0.0%	120	100.0%	1,655	3,870	-57.2%
HEATING OIL BALMO CLNDR S	1G	0	0	0.0%	0	0.0%	243	830	-70.7%
HEATING OIL CRCK SPRD BAL	1H	0	0	0.0%	0	-	0	0	0.0%

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Energy Futures									
HEATING OIL PHY	HOL	0	0	0.0%	0	0.0%	0	0	0.0%
HENRY HUB BASIS SWAP	HB	0	0	0.0%	16,658	-100.0%	32,088	52,732	-39.1%
HENRY HUB FINANCIAL LAST	NBP	0	1,762	-100.0%	522	-100.0%	26,818	4,257	530.0%
HENRY HUB FINANCIAL LAST	TTE	0	134	-100.0%	0	0.0%	885	887	-0.2%
HENRY HUB INDEX SWAP FUTU	IN	0	0	0.0%	16,658	-100.0%	32,088	50,542	-36.5%
HENRY HUB SWAP	NN	167,365	184,369	-9.2%	164,419	1.8%	1,849,116	2,050,456	-9.8%
HENRY HUB SWING FUTURE	SN	0	0	0.0%	0	-	0	0	0.0%
HOUSTON SHIP CHANNEL BASI	NH	0	5,480	-100.0%	0	0.0%	0	9,257	-100.0%
HOUSTON SHIP CHANNEL INDE	IP	0	0	0.0%	0	-	0	0	0.0%
HUSTN SHIP CHNL PIPE SWP	XJ	0	0	0.0%	0	0.0%	0	719	-100.0%
ICE BRENT DUBAI SWAP	DB	3,890	20,075	-80.6%	9,840	-60.5%	104,308	117,530	-11.2%
ICE GASOIL BALMO SWAP	U9	0	0	0.0%	0	0.0%	0	9	-100.0%
IN DELIVERY MONTH EUA	6T	0	0	0.0%	1,248	-100.0%	1,248	2,850	-56.2%
INDIANA MISO	FAD	0	0	0.0%	0	0.0%	0	0	0.0%
INDIANA MISO	FTD	0	0	0.0%	0	0.0%	0	0	0.0%
INDIANA MISO	FTM	0	0	0.0%	0	0.0%	0	0	0.0%
INDIANA MISO	PDD	0	0	0.0%	0	0.0%	0	0	0.0%
INDIANA MISO	PDM	0	0	0.0%	0	-	0	0	0.0%
INDIANA MISO	PTD	0	0	0.0%	0	0.0%	0	0	0.0%
INDIANA MISO	PTM	0	0	0.0%	0	-	0	0	0.0%
INDONESIAN COAL	MCC	0	0	0.0%	0	0.0%	0	5	-100.0%
INDONESIAN COAL ICI4	ICI	205	0	-	265	-22.6%	1,720	0	-
ISO NEW ENGLAND OFF-PEAK	KI	0	0	0.0%	0	0.0%	0	0	0.0%
ISO NEW ENGLAND PK LMP	NI	0	0	0.0%	0	0.0%	0	10	-100.0%
JAPAN C&F NAPHTHA CRACK S	JB	161	830	-80.6%	40	302.5%	1,890	6,643	-71.5%
JAPAN C&F NAPHTHA SWAP	JA	1,105	1,564	-29.3%	2,863	-61.4%	22,215	16,774	32.4%
JAPAN NAPHTHA BALMO SWAP	E6	20	0	0.0%	82	-75.6%	628	1,410	-55.5%
JET AV FUEL (P) CAR FM ICE GAS SWAP	1V	0	0	0.0%	0	0.0%	5	36	-86.1%
JET BARGES VS ICE GASOIL	JR	0	0	0.0%	0	-	0	0	0.0%
JET CIF NWE VS ICE	JC	0	273	-100.0%	0	0.0%	642	1,248	-48.6%
JET FUEL BRG FOB RDM VS I	9Q	0	0	0.0%	0	0.0%	0	5	-100.0%
JET FUEL CRG CIF NEW VS I	6X	0	2	-100.0%	0	0.0%	0	64	-100.0%
JET FUEL UP-DOWN BALMO CL	1M	5,370	4,130	30.0%	7,120	-24.6%	65,567	76,391	-14.2%
LA CARB DIESEL (OPIS)	LX	0	0	0.0%	0	0.0%	0	0	0.0%
LA CARB DIESEL (OPIS) SWA	KL	125	125	0.0%	240	-47.9%	3,095	2,120	46.0%
LA CARBOB GASOLINE(OPIS)S	JL	410	300	36.7%	850	-51.8%	5,510	2,775	98.6%

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Energy Futures									
LA JET FUEL VS NYM NO 2 H	MQ	0	0	0.0%	0	0.0%	0	25	-100.0%
LA JET (OPIS) SWAP	JS	700	740	-5.4%	1,886	-62.9%	21,179	18,865	12.3%
LLS (ARGUS) CALENDAR SWAP	XA	0	0	-	0	0.0%	607	0	-
LLS (ARGUS) VS WTI SWAP	WJ	2,800	8,239	-66.0%	5,167	-45.8%	59,429	55,960	6.2%
LOS ANGELES CARB GASOLINE	MH	10	0	-	0	-	10	0	-
MARS (ARGUS) VS WTI SWAP	YX	985	1,370	-28.1%	1,300	-24.2%	22,270	34,019	-34.5%
MARS (ARGUS) VS WTI TRD M	YV	12,665	38,087	-66.7%	15,810	-19.9%	219,966	234,716	-6.3%
MARS BLEND CRUDE OIL	MB	0	1,000	-100.0%	0	0.0%	2,319	14,968	-84.5%
MCCLOSKEY ARA ARGS COAL	MTF	24,979	28,239	-11.5%	19,982	25.0%	262,641	482,032	-45.5%
MCCLOSKEY RCH BAY COAL	MFF	2,100	2,635	-20.3%	1,485	41.4%	32,311	52,976	-39.0%
MGF FUT	MGF	10	30	-66.7%	40	-75.0%	268	316	-15.2%
MGN1 SWAP FUT	MGN	120	70	71.4%	60	100.0%	813	1,074	-24.3%
MICHCON NG INDEX SWAP	Y8	0	0	0.0%	0	-	0	0	0.0%
MICHIGAN BASIS	NF	0	156	-100.0%	0	0.0%	0	2,748	-100.0%
MICHIGAN MISO	HMO	0	0	0.0%	0	0.0%	0	106,440	-100.0%
MICHIGAN MISO	HMW	0	0	0.0%	0	0.0%	0	5,730	-100.0%
MINI GAS EUROBOB OXY NWE ARGS BALMO	MEB	362	195	85.6%	247	46.6%	3,798	4,710	-19.4%
MINI RBOB V. EBOBARG NWE BRGS BALMO	MXR	0	90	-100.0%	0	0.0%	3,383	5,726	-40.9%
MINI RBOB V. EBOB(ARGUS) NWE BRGS	MXB	1,322	1,503	-12.0%	3,202	-58.7%	20,073	24,633	-18.5%
MJC FUT	MJC	50	115	-56.5%	85	-41.2%	1,460	1,305	11.9%
MNC FUT	MNC	5,026	2,750	82.8%	5,643	-10.9%	45,790	43,885	4.3%
MONT BELVIEU ETHANE 5 DECIMAL	C0	8,446	12,620	-33.1%	16,362	-48.4%	172,811	242,042	-28.6%
MONT BELVIEU ETHANE OPIS BALMO	8C	80	180	-55.6%	125	-36.0%	1,690	2,870	-41.1%
MONT BELVIEU LDH PROPANE 5 DECIMAL	B0	136,581	101,199	35.0%	168,911	-19.1%	1,382,491	1,021,611	35.3%
MONT BELVIEU LDH PROPANE OPIS BALMO	8O	1,871	1,113	68.1%	1,597	17.2%	27,019	18,034	49.8%
MONT BELVIEU NATURAL GASOLINE 5 DEC	7Q	7,858	15,730	-50.0%	11,201	-29.8%	91,947	63,806	44.1%
MONT BELVIEU NATURAL GASOLINE BALMO	R0	40	480	-91.7%	235	-83.0%	3,626	3,344	8.4%
MONT BELVIEU NORMAL BUTANE 5 DECIMAL	D0	32,903	42,791	-23.1%	57,887	-43.2%	399,925	327,695	22.0%
MONT BELVIEU NORMAL BUTANE BALMO	8J	920	584	57.5%	1,547	-40.5%	11,989	7,740	54.9%
NAT GAS BASIS SWAP	TZ6	0	422	-100.0%	0	0.0%	0	2,587	-100.0%
NATURAL GAS	HBI	0	0	0.0%	0	-	0	0	0.0%
NATURAL GAS	XIC	0	0	0.0%	0	0.0%	0	44	-100.0%
NATURAL GAS FIXED PRICE SWAP FUTURES	CFS	0	0	0.0%	0	-	0	0	0.0%
NATURAL GAS FIXED PRICE SWAP FUTURES	DSF	0	0	0.0%	0	0.0%	0	360	-100.0%
NATURAL GAS FIXED PRICE SWAP FUTURES	MFS	0	0	0.0%	0	-	0	0	0.0%
NATURAL GAS FIXED PRICE SWAP FUTURES	PFS	0	0	0.0%	0	-	0	0	0.0%



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Energy Futures									
NATURAL GAS FIXED PRICE SWAP FUTURES	WFS	0	0	0.0%	0	-	0	0	0.0%
NATURAL GAS FIXED PRICE SWAP FUTURES	ZTS	0	0	0.0%	0	-	0	0	0.0%
NATURAL GAS INDEX	TZI	0	0	0.0%	0	0.0%	0	656	-100.0%
NATURAL GAS PEN SWP	NP	54,632	84,159	-35.1%	30,745	77.7%	390,190	925,807	-57.9%
NEPOOL CNCTCT 5MW D AH O	P3	0	0	0.0%	0	0.0%	0	0	0.0%
NEPOOL CONECTIC 5MW D AH	P2	0	0	0.0%	0	0.0%	0	0	0.0%
NEPOOL INTR HUB 5MW D AH	H2	0	0	0.0%	31,565	-100.0%	136,440	235,140	-42.0%
NEPOOL INTR HUB 5MW D AH	U6	0	0	0.0%	1,695	-100.0%	12,711	17,275	-26.4%
NEPOOL NE MASS 5MW D AH O	P8	0	0	0.0%	0	0.0%	0	14,040	-100.0%
NEPOOL NE MASS 5MW D AH P	P7	0	0	0.0%	0	0.0%	0	765	-100.0%
NEPOOL NEW HAMP 5MW D AH	U2	0	0	0.0%	0	-	0	0	0.0%
NEPOOL NEW HAMP 5MW D AH	U3	0	0	0.0%	0	-	0	0	0.0%
NEPOOL RHD ISLD 5MW D AH	U4	0	0	0.0%	0	0.0%	0	0	0.0%
NEPOOL RHODE IL 5MW D AH	U5	0	0	0.0%	0	0.0%	0	0	0.0%
NEPOOL SE MASS 5MW D AH O	P5	0	0	0.0%	0	-	0	0	0.0%
NEPOOL SE MASS 5MW D AH P	P4	0	0	0.0%	0	-	0	0	0.0%
NEPOOL W CNT MASS 5MW D A	L9	0	0	0.0%	0	0.0%	0	0	0.0%
NEPOOL W CNTR M 5MW D AH	R6	0	0	0.0%	0	0.0%	0	0	0.0%
NEW ENGLAND HUB PEAK DAIL	CE	0	0	0.0%	0	0.0%	0	0	0.0%
NEW YORK ETHANOL SWAP	EZ	337	1,105	-69.5%	175	92.6%	12,028	9,250	30.0%
NEW YORK HUB ZONE G PEAK	GN	0	0	0.0%	0	0.0%	0	0	0.0%
NEW YORK HUB ZONE J PEAK	JN	0	0	0.0%	0	0.0%	0	0	0.0%
NGPL MID-CONTINENT	NL	1,300	600	116.7%	1,568	-17.1%	4,748	4,674	1.6%
NGPL MIDCONTINENT INDEX	IW	0	0	0.0%	0	-	0	0	0.0%
NGPL MIDCONTINENT SWING S	PX	0	0	0.0%	0	-	0	0	0.0%
NGPL TEX/OK	PD	3,080	1,080	185.2%	19,520	-84.2%	47,716	9,214	417.9%
NGPL TEXOK INDEX	OI	0	0	0.0%	0	-	0	0	0.0%
N ILLINOIS HUB DAILY	UD	0	0	0.0%	0	0.0%	0	0	0.0%
N ILLINOIS HUB MTHLY	UM	0	0	0.0%	0	0.0%	0	0	0.0%
NO 2 UP-DOWN SPREAD CALEN	UT	0	0	0.0%	0	0.0%	2,983	3,659	-18.5%
NORTHERN NATURAL GAS DEMAR	PE	0	0	0.0%	0	0.0%	0	0	0.0%
NORTHERN NATURAL GAS VENTU	PF	0	48	-100.0%	0	0.0%	100	132	-24.2%
NORTHERN ILLINOIS OFF-PEA	UO	0	0	0.0%	0	0.0%	0	0	0.0%
NORTHWEST ROCKIES BASIS S	NR	0	0	0.0%	0	0.0%	0	3,088	-100.0%
N ROCKIES PIPE SWAP	XR	0	0	0.0%	0	0.0%	59	334	-82.3%
NY1% VS GC SPREAD SWAP	VR	510	1,505	-66.1%	165	209.1%	13,908	23,477	-40.8%

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Energy Futures									
NY 2.2% FUEL OIL (PLATTS	Y3	0	0	0.0%	0	0.0%	0	0	0.0%
NY 3.0% FUEL OIL (PLATTS	H1	0	0	0.0%	0	0.0%	1,795	3,260	-44.9%
NY HARBOR 1% FUEL OIL BAL	VK	0	0	0.0%	0	0.0%	50	25	100.0%
NY HARBOR HEAT OIL SWP	MP	4,723	1,067	342.6%	5,969	-20.9%	27,783	23,484	18.3%
NY HARBOR LOW SULPUR GAS 1000MBBL	NLS	600	0	0.0%	0	0.0%	3,445	4,273	-19.4%
NY HARBOR RESIDUAL FUEL 1	MM	621	780	-20.4%	659	-5.8%	11,413	26,062	-56.2%
NY HARBOR RESIDUAL FUEL C	ML	50	0	-	0	-	50	0	-
NYH NO 2 CRACK SPREAD CAL	HK	534	420	27.1%	330	61.8%	8,576	14,034	-38.9%
NY H OIL PLATTS VS NYMEX	YH	0	0	0.0%	0	-	0	0	0.0%
NYISO A	KA	0	0	0.0%	0	0.0%	0	0	0.0%
NYISO A OFF-PEAK	KB	0	0	0.0%	0	0.0%	0	0	0.0%
NYISO CAPACITY	LHV	0	0	0.0%	400	-100.0%	646	453	42.6%
NYISO CAPACITY	NNC	60	0	0.0%	0	0.0%	795	2,306	-65.5%
NYISO CAPACITY	NRS	0	132	-100.0%	60	-100.0%	335	2,899	-88.4%
NYISO G	KG	0	0	0.0%	0	0.0%	0	0	0.0%
NYISO G OFF-PEAK	KH	0	0	0.0%	0	0.0%	0	0	0.0%
NYISO J	KJ	0	0	0.0%	0	0.0%	0	0	0.0%
NYISO J OFF-PEAK	KK	0	0	0.0%	0	0.0%	0	0	0.0%
NYISO ZONE A 5MW D AH O P	K4	0	0	0.0%	44,264	-100.0%	44,264	32,760	35.1%
NYISO ZONE A 5MW D AH PK	K3	0	0	0.0%	1,890	-100.0%	1,890	6,815	-72.3%
NYISO ZONE C 5MW D AH O P	A3	0	0	0.0%	0	0.0%	0	0	0.0%
NYISO ZONE C 5MW D AH PK	Q5	0	0	0.0%	0	0.0%	0	110	-100.0%
NYISO ZONE G 5MW D AH O P	D2	11,550	0	0.0%	13,980	-17.4%	626,384	780,585	-19.8%
NYISO ZONE G 5MW D AH PK	T3	635	2,560	-75.2%	730	-13.0%	21,159	57,604	-63.3%
NYISO ZONE J 5MW D AH O P	D4	0	0	0.0%	0	0.0%	0	226,600	-100.0%
NYISO ZONE J 5MW D AH PK	D3	0	1,815	-100.0%	0	0.0%	0	26,790	-100.0%
NY JET FUEL (PLATTS) HEAT OIL SWAP	1U	0	0	0.0%	0	-	0	0	0.0%
NYMEX ALUMINUM FUTURES	AN	0	0	0.0%	0	0.0%	0	0	0.0%
NYMEX ULSD VS NYMEX HO	UY	0	0	0.0%	0	0.0%	0	0	0.0%
NY ULSD (ARGUS) VS HEATING OIL	7Y	0	13	-100.0%	0	0.0%	213	8,245	-97.4%
ONEOK OKLAHOMA NG BASIS	8X	0	0	0.0%	0	0.0%	2,704	1,788	51.2%
ONTARIO POWER SWAPS	OFD	0	0	0.0%	0	0.0%	0	0	0.0%
ONTARIO POWER SWAPS	OFM	0	0	0.0%	0	0.0%	0	0	0.0%
ONTARIO POWER SWAPS	OPD	0	0	0.0%	0	0.0%	10	505	-98.0%
ONTARIO POWER SWAPS	OPM	0	0	0.0%	0	0.0%	0	650	-100.0%
PANHANDLE BASIS SWAP FUTU	PH	0	0	0.0%	0	0.0%	275	3,060	-91.0%

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Commodity		VOLUME NOV 2018	VOLUME NOV 2017	% CHG	VOLUME OCT 2018	% CHG	VOLUME Y.T.D 2018	VOLUME Y.T.D 2017	% CHG
Energy Futures									
PANHANDLE INDEX SWAP FUTU	IV	0	0	0.0%	0	-	0	0	0.0%
PANHANDLE PIPE SWAP	XH	0	0	0.0%	0	0.0%	0	3,228	-100.0%
PERMIAN BASIS SWAP	PM	0	0	0.0%	0	0.0%	0	1,381	-100.0%
PETROCHEMICALS	22	108	142	-23.9%	324	-66.7%	1,978	923	114.3%
PETROCHEMICALS	32	51	151	-66.2%	109	-53.2%	1,634	1,201	36.1%
PETROCHEMICALS	3NA	5	0	-	6	-16.7%	11	0	-
PETROCHEMICALS	51	0	0	-	0	0.0%	23	0	-
PETROCHEMICALS	8I	0	448	-100.0%	473	-100.0%	6,760	6,546	3.3%
PETROCHEMICALS	91	477	837	-43.0%	649	-26.5%	4,798	3,090	55.3%
PETROCHEMICALS	HPE	0	0	0.0%	0	0.0%	0	0	0.0%
PETROCHEMICALS	JKM	3,335	165	1,921.2%	2,330	43.1%	15,679	725	2,062.6%
PETROCHEMICALS	LPE	0	0	0.0%	0	-	0	0	0.0%
PETROCHEMICALS	MAA	0	0	-	0	0.0%	50	0	-
PETROCHEMICALS	MAC	0	0	0.0%	0	0.0%	0	50	-100.0%
PETROCHEMICALS	MAE	522	90	480.0%	290	80.0%	2,564	500	412.8%
PETROCHEMICALS	MAS	370	0	0.0%	170	117.6%	2,081	375	454.9%
PETROCHEMICALS	MBE	360	180	100.0%	900	-60.0%	8,890	12,240	-27.4%
PETROCHEMICALS	MNB	1,272	2,021	-37.1%	761	67.1%	19,650	19,235	2.2%
PETROCHEMICALS	MPS	203	60	238.3%	140	45.0%	1,353	100	1,253.0%
PETRO CRCKS & SPRDS ASIA	JNC	0	0	0.0%	0	0.0%	0	150	-100.0%
PETRO CRCKS & SPRDS ASIA	STI	0	0	0.0%	0	0.0%	0	182	-100.0%
PETRO CRCKS & SPRDS ASIA	STR	300	0	0.0%	0	0.0%	400	264	51.5%
PETRO CRCKS & SPRDS ASIA	STS	30	378	-92.1%	0	0.0%	539	1,688	-68.1%
PETRO CRCKS & SPRDS NA	CRB	6,935	350	1,881.4%	5,325	30.2%	29,825	2,780	972.8%
PETRO CRCKS & SPRDS NA	EXR	1,897	2,090	-9.2%	3,485	-45.6%	31,209	27,091	15.2%
PETRO CRCKS & SPRDS NA	FOC	200	150	33.3%	150	33.3%	6,975	7,203	-3.2%
PETRO CRCKS & SPRDS NA	GBB	440	1,275	-65.5%	975	-54.9%	12,725	12,903	-1.4%
PETRO CRCKS & SPRDS NA	GCC	0	0	0.0%	0	0.0%	1,740	1,310	32.8%
PETRO CRCKS & SPRDS NA	GCI	539	350	54.0%	974	-44.7%	14,600	10,598	37.8%
PETRO CRCKS & SPRDS NA	GCM	0	0	0.0%	0	0.0%	163	59	176.3%
PETRO CRCKS & SPRDS NA	GCU	6,359	9,956	-36.1%	2,446	160.0%	122,174	65,632	86.2%
PETRO CRCKS & SPRDS NA	GFC	0	0	0.0%	0	0.0%	40	535	-92.5%
PETRO CRCKS & SPRDS NA	HOB	453	3,207	-85.9%	72	529.2%	9,122	32,936	-72.3%
PETRO CRCKS & SPRDS NA	KSD	0	0	0.0%	0	0.0%	0	75	-100.0%
PETRO CRCKS & SPRDS NA	MFR	0	0	0.0%	0	0.0%	4	0	0.0%
PETRO CRCKS & SPRDS NA	NFG	0	0	0.0%	0	0.0%	50	109	-54.1%



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Commodity		VOLUME NOV 2018	VOLUME NOV 2017	% CHG	VOLUME OCT 2018	% CHG	VOLUME Y.T.D 2018	VOLUME Y.T.D 2017	% CHG
Energy Futures									
PETRO CRCKS & SPRDS NA	NYF	0	0	0.0%	0	0.0%	0	1,125	-100.0%
PETRO CRCKS & SPRDS NA	NYH	0	0	0.0%	0	0.0%	0	0	0.0%
PETRO CRCKS & SPRDS NA	RBB	3,315	6,552	-49.4%	5,535	-40.1%	57,610	84,679	-32.0%
PETRO CRCKS & SPRDS NA	RVG	14,599	15,915	-8.3%	16,287	-10.4%	174,729	173,227	0.9%
PETRO CRCKS & SPRDS NA	SF3	25	0	0.0%	0	0.0%	346	15	2,206.7%
PETRO CRK&SPRD EURO	1NB	1,625	645	151.9%	1,258	29.2%	19,716	13,219	49.1%
PETRO CRK&SPRD EURO	1ND	0	0	0.0%	0	0.0%	100	425	-76.5%
PETRO CRK&SPRD EURO	43	0	141	-100.0%	45	-100.0%	3,414	3,496	-2.3%
PETRO CRK&SPRD EURO	BFR	0	0	0.0%	0	0.0%	0	0	0.0%
PETRO CRK&SPRD EURO	BOB	980	1,325	-26.0%	1,371	-28.5%	17,716	19,524	-9.3%
PETRO CRK&SPRD EURO	EGB	0	0	0.0%	0	0.0%	0	5	-100.0%
PETRO CRK&SPRD EURO	EGN	0	0	0.0%	0	0.0%	0	18	-100.0%
PETRO CRK&SPRD EURO	EOB	0	0	0.0%	9	-100.0%	222	127	74.8%
PETRO CRK&SPRD EURO	EPN	693	1,099	-36.9%	1,685	-58.9%	10,486	5,759	82.1%
PETRO CRK&SPRD EURO	EVC	1,138	3,454	-67.1%	1,392	-18.2%	21,132	26,811	-21.2%
PETRO CRK&SPRD EURO	FBT	0	0	0.0%	0	-	0	0	0.0%
PETRO CRK&SPRD EURO	FVB	0	0	0.0%	0	0.0%	30	0	0.0%
PETRO CRK&SPRD EURO	GCB	0	0	0.0%	0	0.0%	680	739	-8.0%
PETRO CRK&SPRD EURO	GOC	0	0	0.0%	0	0.0%	84	120	-30.0%
PETRO CRK&SPRD EURO	MGB	110	80	37.5%	0	0.0%	220	150	46.7%
PETRO CRK&SPRD EURO	MUD	10	10	0.0%	0	0.0%	173	898	-80.7%
PETRO CRK&SPRD EURO	NBB	0	0	0.0%	20	-100.0%	182	134	35.8%
PETRO CRK&SPRD EURO	NOB	2,271	1,125	101.9%	3,101	-26.8%	20,710	11,950	73.3%
PETRO CRK&SPRD EURO	SFB	0	0	0.0%	0	0.0%	125	178	-29.8%
PETROLEUM PRODUCTS	D46	0	0	0.0%	0	-	0	0	0.0%
PETROLEUM PRODUCTS	EWB	0	0	0.0%	0	0.0%	0	0	0.0%
PETROLEUM PRODUCTS	EWG	4,382	5,425	-19.2%	8,695	-49.6%	55,601	30,049	85.0%
PETROLEUM PRODUCTS	MBS	0	0	0.0%	0	0.0%	0	80	-100.0%
PETROLEUM PRODUCTS	MGS	0	0	0.0%	0	0.0%	0	20	-100.0%
PETROLEUM PRODUCTS	MHE	0	0	0.0%	0	-	0	0	0.0%
PETROLEUM PRODUCTS	MME	30	30	0.0%	0	0.0%	60	50	20.0%
PETROLEUM PRODUCTS	MPE	0	0	0.0%	0	0.0%	0	100	-100.0%
PETROLEUM PRODUCTS	VU	295	0	0.0%	0	0.0%	1,339	3,014	-55.6%
PETROLEUM PRODUCTS ASIA	E6M	0	20	-100.0%	60	-100.0%	714	242	195.0%
PETROLEUM PRODUCTS ASIA	MJN	2,265	1,022	121.6%	1,851	22.4%	21,300	19,395	9.8%
PETROLEUM PRODUCTS ASIA	MSB	0	0	0.0%	0	0.0%	0	45	-100.0%

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Commodity		VOLUME NOV 2018	VOLUME NOV 2017	% CHG	VOLUME OCT 2018	% CHG	VOLUME Y.T.D 2018	VOLUME Y.T.D 2017	% CHG
Energy Futures									
PETRO OUTRIGHT EURO	0B	40	50	-20.0%	0	0.0%	124	163	-23.9%
PETRO OUTRIGHT EURO	0C	0	40	-100.0%	0	0.0%	23	70	-67.1%
PETRO OUTRIGHT EURO	0D	1,491	1,804	-17.4%	1,212	23.0%	14,592	25,276	-42.3%
PETRO OUTRIGHT EURO	0E	0	8	-100.0%	0	0.0%	238	4,104	-94.2%
PETRO OUTRIGHT EURO	0F	444	433	2.5%	220	101.8%	5,575	11,333	-50.8%
PETRO OUTRIGHT EURO	1T	0	0	0.0%	0	0.0%	39	102	-61.8%
PETRO OUTRIGHT EURO	33	0	0	0.0%	0	0.0%	0	80	-100.0%
PETRO OUTRIGHT EURO	5L	40	0	0.0%	0	0.0%	264	709	-62.8%
PETRO OUTRIGHT EURO	63	40	10	300.0%	5	700.0%	217	777	-72.1%
PETRO OUTRIGHT EURO	6L	0	0	0.0%	0	0.0%	0	7	-100.0%
PETRO OUTRIGHT EURO	7I	74	0	0.0%	262	-71.8%	1,235	1,157	6.7%
PETRO OUTRIGHT EURO	7R	73	145	-49.7%	159	-54.1%	3,006	2,505	20.0%
PETRO OUTRIGHT EURO	88	20	15	33.3%	0	0.0%	125	75	66.7%
PETRO OUTRIGHT EURO	CBB	25	10	150.0%	0	0.0%	80	52	53.8%
PETRO OUTRIGHT EURO	CGB	0	0	0.0%	0	0.0%	0	50	-100.0%
PETRO OUTRIGHT EURO	CPB	127	5	2,440.0%	190	-33.2%	3,453	2,853	21.0%
PETRO OUTRIGHT EURO	EFF	21	0	0.0%	48	-56.3%	185	310	-40.3%
PETRO OUTRIGHT EURO	EFM	0	0	0.0%	0	0.0%	0	453	-100.0%
PETRO OUTRIGHT EURO	ENS	0	0	0.0%	0	0.0%	145	180	-19.4%
PETRO OUTRIGHT EURO	ESB	0	0	0.0%	0	0.0%	0	69	-100.0%
PETRO OUTRIGHT EURO	EWN	719	385	86.8%	893	-19.5%	7,862	7,491	5.0%
PETRO OUTRIGHT EURO	FBD	0	0	0.0%	0	0.0%	0	20	-100.0%
PETRO OUTRIGHT EURO	FLB	0	0	-	0	0.0%	5	0	-
PETRO OUTRIGHT EURO	GES	0	0	-	0	0.0%	5	0	-
PETRO OUTRIGHT EURO	MBB	50	0	0.0%	0	0.0%	321	550	-41.6%
PETRO OUTRIGHT EURO	MBN	150	595	-74.8%	180	-16.7%	9,117	11,086	-17.8%
PETRO OUTRIGHT EURO	MEF	361	0	-	716	-49.6%	1,500	0	-
PETRO OUTRIGHT EURO	SMU	0	0	0.0%	0	0.0%	553	40	1,282.5%
PETRO OUTRIGHT EURO	T0	0	0	0.0%	0	0.0%	9	164	-94.5%
PETRO OUTRIGHT EURO	ULB	0	0	0.0%	0	0.0%	0	375	-100.0%
PETRO OUTRIGHT EURO	V0	0	0	0.0%	0	0.0%	980	150	553.3%
PETRO OUTRIGHT EURO	W0	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT EURO	X0	0	0	0.0%	0	0.0%	116	0	0.0%
PETRO OUTRIGHT NA	FCB	0	0	0.0%	64	-100.0%	808	1,836	-56.0%
PETRO OUTRIGHT NA	FOM	0	0	0.0%	0	0.0%	8	50	-84.0%
PETRO OUTRIGHT NA	GBA	0	0	0.0%	0	-	0	0	0.0%



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Commodity		VOLUME NOV 2018	VOLUME NOV 2017	% CHG	VOLUME OCT 2018	% CHG	VOLUME Y.T.D 2018	VOLUME Y.T.D 2017	% CHG
Energy Futures									
PETRO OUTRIGHT NA	GUD	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT NA	JE	42	0	0.0%	0	0.0%	111	420	-73.6%
PETRO OUTRIGHT NA	JET	1,965	2,726	-27.9%	4,270	-54.0%	33,390	44,086	-24.3%
PETRO OUTRIGHT NA	JTB	900	375	140.0%	2,090	-56.9%	7,550	3,813	98.0%
PETRO OUTRIGHT NA	MBL	0	0	0.0%	0	0.0%	40	266	-85.0%
PETRO OUTRIGHT NA	MEN	373	591	-36.9%	401	-7.0%	4,752	6,548	-27.4%
PETRO OUTRIGHT NA	MEO	2,497	2,753	-9.3%	3,298	-24.3%	38,503	91,604	-58.0%
PETRO OUTRIGHT NA	MFD	0	0	0.0%	0	0.0%	100	203	-50.7%
PETRO OUTRIGHT NA	MMF	27	0	0.0%	63	-57.1%	220	510	-56.9%
PETRO OUTRIGHT NA	NYT	0	0	0.0%	0	0.0%	0	625	-100.0%
PETRO OUTRIGHT NA	XER	0	0	0.0%	0	0.0%	300	0	0.0%
PJM AD HUB 5MW REAL TIME	V3	23,360	14,880	57.0%	0	0.0%	64,757	288,349	-77.5%
PJM AD HUB 5MW REAL TIME	Z9	1,285	0	0.0%	0	0.0%	14,358	22,831	-37.1%
PJM AECO DA OFF-PEAK	X1	0	0	0.0%	0	0.0%	0	0	0.0%
PJM AECO DA PEAK	Y1	0	0	0.0%	0	0.0%	0	0	0.0%
PJM APS ZONE DA OFF-PEAK	W4	0	0	0.0%	0	0.0%	0	0	0.0%
PJM APS ZONE DA PEAK	S4	0	0	0.0%	0	0.0%	0	0	0.0%
PJM ATSI ELEC	MOD	0	0	0.0%	0	0.0%	0	46,800	-100.0%
PJM ATSI ELEC	MPD	0	0	0.0%	0	0.0%	0	2,550	-100.0%
PJM BGE DA OFF-PEAK	R3	0	0	0.0%	0	0.0%	0	0	0.0%
PJM BGE DA PEAK	E3	0	0	0.0%	0	0.0%	0	0	0.0%
PJM COMED 5MW D AH O PK	D9	0	0	0.0%	0	0.0%	0	85,390	-100.0%
PJM COMED 5MW D AH PK	D8	0	0	0.0%	0	0.0%	0	4,675	-100.0%
PJM DAILY	JD	0	0	0.0%	0	0.0%	0	0	0.0%
PJM DAYTON DA OFF-PEAK	R7	0	0	0.0%	0	0.0%	0	211,995	-100.0%
PJM DAYTON DA PEAK	D7	0	0	0.0%	0	0.0%	0	5,250	-100.0%
PJM JCPL DA OFF-PEAK	F2	0	0	0.0%	0	0.0%	0	0	0.0%
PJM JCPL DA PEAK	J2	0	0	0.0%	0	0.0%	0	0	0.0%
PJM NI HUB 5MW REAL TIME	B3	0	200	-100.0%	1,280	-100.0%	6,380	79,300	-92.0%
PJM NI HUB 5MW REAL TIME	B6	0	19,120	-100.0%	0	0.0%	5,925	1,719,650	-99.7%
PJM NILL DA OFF-PEAK	L3	0	1,944	-100.0%	770	-100.0%	770	689,738	-99.9%
PJM NILL DA PEAK	N3	0	160	-100.0%	42	-100.0%	64	39,492	-99.8%
PJM OFF-PEAK LMP SWAP FUT	JP	0	0	0.0%	0	0.0%	0	0	0.0%
PJM PECO ZONE5MW PEAK CAL MO DAY AH	4N	2,960	0	0.0%	0	-	2,960	0	0.0%
PJM PPL DA OFF-PEAK	F5	0	0	0.0%	0	0.0%	0	0	0.0%
PJM PPL DA PEAK	L5	0	0	0.0%	0	0.0%	0	0	0.0%

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Energy Futures									
PJM PSEG DA OFF-PEAK	W6	55,380	0	0.0%	0	0.0%	78,780	0	0.0%
PJM PSEG DA PEAK	L6	2,960	0	0.0%	0	0.0%	4,235	0	0.0%
PJM WES HUB PEAK LMP 50 M	4S	0	0	0.0%	0	-	0	0	0.0%
PJM WESTH DA OFF-PEAK	E4	0	0	0.0%	0	0.0%	101,810	54,300	87.5%
PJM WESTHDA PEAK	J4	0	0	0.0%	0	0.0%	5,525	8,620	-35.9%
PJM WESTH RT OFF-PEAK	N9	23,360	27,120	-13.9%	39,200	-40.4%	372,480	2,185,415	-83.0%
PJM WESTH RT PEAK	L1	1,799	4,600	-60.9%	2,555	-29.6%	60,990	208,591	-70.8%
PLASTICS	PGP	709	270	162.6%	1,159	-38.8%	5,023	5,984	-16.1%
PREMIUM UNLD 10P FOB MED	3G	446	193	131.1%	79	464.6%	2,838	864	228.5%
PREMIUM UNLEAD 10PPM FOB	8G	5	10	-50.0%	0	0.0%	443	162	173.5%
PREM UNL GAS 10PPM RDAM FOB BALMO	7N	3	0	0.0%	0	0.0%	83	7	1,085.7%
PREM UNL GAS 10PPM RDAM FOB SWAP	7L	0	0	0.0%	0	0.0%	326	37	781.1%
PROPANE NON-LDH MB (OPIS) BALMO SWP	1S	7	0	0.0%	170	-95.9%	5,196	4,927	5.5%
PROPANE NON-LDH MT. BEL (OPIS) SWP	1R	12,383	9,825	26.0%	17,773	-30.3%	139,177	78,535	77.2%
RBOB CALENDAR SWAP	RL	3,612	7,924	-54.4%	7,181	-49.7%	62,151	79,938	-22.3%
RBOB CRACK SPREAD	RM	55	650	-91.5%	60	-8.3%	9,583	10,807	-11.3%
RBOB CRACK SPREAD BALMO S	1E	0	0	0.0%	0	0.0%	0	0	0.0%
RBOB GASOLINE BALMO CLNDR	1D	396	815	-51.4%	530	-25.3%	11,178	10,365	7.8%
RBOB PHY	RBL	0	0	0.0%	0	0.0%	0	0	0.0%
RBOB (PLATTS) CAL SWAP	RY	0	0	0.0%	0	-	0	0	0.0%
RBOB SPREAD (PLATTS) SWAP	RI	0	0	0.0%	0	0.0%	0	0	0.0%
RBOB UP-DOWN CALENDAR SWA	RV	0	0	0.0%	0	-	0	0	0.0%
RBOB VS HEATING OIL SWAP	RH	0	200	-100.0%	0	0.0%	1,975	17,070	-88.4%
ROCKIES KERN OPAL - NW IN	IR	0	0	0.0%	0	-	0	0	0.0%
SAN JUAN BASIS SWAP	NJ	0	0	0.0%	0	0.0%	58	2,254	-97.4%
SAN JUAN PIPE SWAP	XX	0	0	-	0	0.0%	360	0	-
SINGAPORE 180CST BALMO	BS	10	110	-90.9%	30	-66.7%	483	682	-29.2%
SINGAPORE 380CST BALMO	BT	93	373	-75.1%	261	-64.4%	2,294	2,528	-9.3%
SINGAPORE 380CST FUEL OIL	SE	7,770	8,298	-6.4%	6,031	28.8%	91,963	105,852	-13.1%
SINGAPORE FUEL 180CST CAL	UA	426	849	-49.8%	502	-15.1%	8,482	11,375	-25.4%
SINGAPORE FUEL OIL SPREAD	SD	175	145	20.7%	117	49.6%	6,186	6,943	-10.9%
SINGAPORE GASOIL	MAF	747	0	-	723	3.3%	2,053	0	-
SINGAPORE GASOIL	MTB	48	30	60.0%	15	220.0%	554	1,520	-63.6%
SINGAPORE GASOIL	MTS	5,698	4,382	30.0%	4,981	14.4%	52,920	52,543	0.7%
SINGAPORE GASOIL	STL	0	0	0.0%	0	-	0	0	0.0%
SINGAPORE GASOIL	STZ	0	0	0.0%	0	0.0%	4,300	800	437.5%

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Energy Futures									
SINGAPORE GASOIL CALENDAR	GDH	0	0	-	0	0.0%	50	0	-
SINGAPORE GASOIL CALENDAR	GDL	0	0	-	0	0.0%	250	0	-
SINGAPORE GASOIL CALENDAR	GHS	0	0	-	0	0.0%	0	0	-
SINGAPORE GASOIL CALENDAR	MGO	0	0	-	0	0.0%	200	0	-
SINGAPORE GASOIL CALENDAR	MSG	130	493	-73.6%	380	-65.8%	4,882	3,153	54.8%
SINGAPORE GASOIL CALENDAR	SGG	0	0	-	0	0.0%	325	0	-
SINGAPORE GASOIL SWAP	SG	1,585	1,163	36.3%	731	116.8%	47,259	89,069	-46.9%
SINGAPORE GASOIL VS ICE	GA	2,403	40	5,907.5%	8,370	-71.3%	128,813	70,169	83.6%
SINGAPORE JET KERO BALMO	BX	0	0	0.0%	0	0.0%	215	536	-59.9%
SINGAPORE JET KERO GASOIL	RK	675	225	200.0%	300	125.0%	34,820	18,310	90.2%
SINGAPORE JET KEROSENE SW	KS	275	350	-21.4%	925	-70.3%	13,275	12,979	2.3%
SINGAPORE JET KERO VS. GASOIL BALMO	Z0	0	0	0.0%	0	0.0%	400	50	700.0%
SINGAPORE MOGAS 92 UNLEADED BALMO	1P	50	265	-81.1%	375	-86.7%	5,771	1,796	221.3%
SINGAPORE MOGAS 92 UNLEADED SWP	1N	14,066	9,249	52.1%	14,751	-4.6%	151,954	81,961	85.4%
SINGAPORE NAPHTHA BALMO	KU	0	0	0.0%	0	-	0	0	0.0%
SINGAPORE NAPHTHA SWAP	SP	0	0	-	0	0.0%	200	0	-
SING FUEL	MSD	0	50	-100.0%	5	-100.0%	100	120	-16.7%
SOCAL PIPE SWAP	XN	0	0	0.0%	0	0.0%	0	0	0.0%
SONAT BASIS SWAP FUTURE	SZ	0	0	0.0%	0	0.0%	0	0	0.0%
SOUTHERN NAT LA NAT GAS	M8	0	0	0.0%	0	-	0	0	0.0%
SOUTH STAR TEX OKLHM KNS	8Z	0	0	0.0%	0	0.0%	0	0	0.0%
Sumas Basis Swap	NK	0	0	0.0%	0	0.0%	91	6,238	-98.5%
SUMAS NAT GAS PLATTS FIXED PRICE	DVS	0	0	0.0%	0	0.0%	0	306	-100.0%
TC2 ROTTERDAM TO USAC 37K	TM	195	80	143.8%	140	39.3%	1,052	80	1,215.0%
TC5 RAS TANURA TO YOKOHAM	TH	160	0	0.0%	680	-76.5%	1,185	0	0.0%
TCO BASIS SWAP	TC	0	667	-100.0%	0	0.0%	0	8,949	-100.0%
TCO NG INDEX SWAP	Q1	0	0	0.0%	0	0.0%	0	0	0.0%
TD3 MEG TO JAPAN 250K MT	TL	5,110	0	0.0%	3,036	68.3%	17,546	30	58,386.7%
TENN 800 LEG NAT GAS INDE	L4	0	0	0.0%	0	-	0	0	0.0%
TENNESSEE 500 LEG BASIS S	NM	0	0	0.0%	0	0.0%	0	428	-100.0%
TENNESSEE 800 LEG NG BASI	6Z	0	0	0.0%	0	0.0%	0	0	0.0%
TENNESSEE ZONE 0 BASIS SW	NQ	0	484	-100.0%	0	0.0%	0	484	-100.0%
TETCO M-3 INDEX	IX	0	0	0.0%	0	0.0%	0	0	0.0%
Tetco STX Basis	TX	0	0	0.0%	0	0.0%	0	0	0.0%
TEXAS EASTERN ZONE M-3 BA	NX	0	908	-100.0%	0	0.0%	0	9,512	-100.0%
TEXAS GAS ZONE1 NG BASIS	9F	0	0	0.0%	0	0.0%	0	0	0.0%

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Energy Futures									
Transco Zone 3 Basis	CZ	0	0	0.0%	0	0.0%	0	302	-100.0%
TRANSCO ZONE 3 NG INDEX S	Y6	0	0	0.0%	0	0.0%	0	6,256	-100.0%
TRANSCO ZONE4 BASIS SWAP	TR	0	0	0.0%	0	0.0%	0	13,239	-100.0%
TRANSCO ZONE 4 NAT GAS IN	B2	0	0	0.0%	0	0.0%	0	465	-100.0%
TRANSCO ZONE 6 BASIS SWAP	NZ	0	856	-100.0%	0	0.0%	0	3,726	-100.0%
TRANSCO ZONE 6 INDEX	IT	0	0	0.0%	0	0.0%	0	856	-100.0%
UCM FUT	UCM	0	30	-100.0%	0	0.0%	60	295	-79.7%
ULSD 10PPM CIF MED BALMO	X7	0	0	0.0%	0	-	0	0	0.0%
ULSD 10PPM CIF MED SWAP	Z6	0	0	0.0%	0	0.0%	0	30	-100.0%
ULSD 10PPM CIF MED VS ICE	Z7	0	15	-100.0%	0	0.0%	14	81	-82.7%
ULSD 10PPM CIF NW BALMO S	B1	0	0	0.0%	0	0.0%	0	6	-100.0%
ULSD 10PPM CIF VS ICE GAS	7V	0	0	0.0%	0	-	0	0	0.0%
ULSD UP-DOWN BALMO SWP	1L	7,971	6,771	17.7%	6,700	19.0%	64,075	53,463	19.8%
UP DOWN GC ULSD VS NMX HO	LT	35,075	41,802	-16.1%	38,271	-8.4%	362,695	516,471	-29.8%
USGC UNL 87 CRACK SPREAD	RU	0	0	0.0%	0	-	0	0	0.0%
WAHA BASIS	NW	0	0	0.0%	0	0.0%	3,201	6,064	-47.2%
WAHA INDEX SWAP FUTURE	IY	0	0	0.0%	0	0.0%	0	0	0.0%
WESTERN RAIL DELIVERY PRB	QP	0	120	-100.0%	0	0.0%	25	2,520	-99.0%
WTI-BRENT BULLET SWAP	BY	0	0	0.0%	0	0.0%	6,650	904	635.6%
WTI-BRENT CALENDAR SWAP	BK	18,361	38,056	-51.8%	17,795	3.2%	333,511	209,422	59.3%
WTI CALENDAR	CS	37,140	37,055	0.2%	40,550	-8.4%	373,579	405,892	-8.0%
WTS (ARGUS) VS WTI SWAP	FF	3,138	6,022	-47.9%	6,088	-48.5%	88,728	59,192	49.9%
WTS (ARGUS) VS WTI TRD MT	FH	120	1,626	-92.6%	720	-83.3%	6,225	9,936	-37.3%
Energy Options									
12 MO GASOIL CAL SWAP SPR	GXZ	0	200	-100.0%	0	0.0%	0	830	-100.0%
1 MO GASOIL CAL SWAP SPR	GXA	0	0	0.0%	0	-	0	0	0.0%
BRENT 1 MONTH CAL	AA	0	0	-	0	0.0%	3,000	0	-
BRENT CALENDAR SWAP	BA	286	0	0.0%	7,322	-96.1%	13,462	5,347	151.8%
BRENT CRUDE OIL 12 M CSO	9Y	0	0	0.0%	0	0.0%	2,000	2,000	0.0%
BRENT CRUDE OIL 1 M CSO	9C	600	0	-	18,450	-96.7%	411,088	0	-
BRENT CRUDE OIL 6 M CSO	9L	0	0	-	0	0.0%	1,000	0	-
BRENT OIL LAST DAY	BE	104,456	1,709	6,012.1%	33,388	212.9%	404,176	37,281	984.1%
BRENT OIL LAST DAY	BZO	181,086	68,440	164.6%	395,735	-54.2%	1,868,717	466,254	300.8%
BRENT OIL LAST DAY	OS	0	48	-100.0%	0	0.0%	1,190	3,892	-69.4%

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Energy Options									
COAL API2 INDEX	CLA	165	325	-49.2%	320	-48.4%	6,590	10,208	-35.4%
COAL API2 INDEX	CQA	175	20	775.0%	25	600.0%	3,655	775	371.6%
COAL API2 INDEX	MTC	0	0	0.0%	0	0.0%	0	50	-100.0%
COAL API4 INDEX	RLA	0	0	0.0%	0	0.0%	25	0	0.0%
COAL API4 INDEX	RQA	0	30	-100.0%	0	0.0%	60	30	100.0%
COAL SWAP	CPF	0	0	0.0%	0	0.0%	0	180	-100.0%
COAL SWAP	RPF	0	0	0.0%	0	0.0%	0	605	-100.0%
CRUDE OIL 1MO	WA	203,245	219,140	-7.3%	223,270	-9.0%	2,231,150	1,980,179	12.7%
CRUDE OIL APO	AO	53,102	65,365	-18.8%	19,147	177.3%	486,898	545,220	-10.7%
CRUDE OIL CALNDR STRIP	6F	0	0	-	0	0.0%	170	0	-
CRUDE OIL OUTRIGHTS	AH	0	0	0.0%	8,000	-100.0%	8,000	0	0.0%
CRUDE OIL OUTRIGHTS	DBP	0	0	0.0%	0	0.0%	0	0	0.0%
CRUDE OIL OUTRIGHTS	WCI	0	0	0.0%	390	-100.0%	390	11,770	-96.7%
CRUDE OIL PHY	CD	0	2,140	-100.0%	1,500	-100.0%	20,850	31,260	-33.3%
CRUDE OIL PHY	LC	24,764	15,815	56.6%	16,765	47.7%	128,975	248,642	-48.1%
CRUDE OIL PHY	LO	5,853,550	4,022,866	45.5%	4,061,250	44.1%	41,294,954	40,565,194	1.8%
CRUDE OIL PHY	LO1	11,326	16,401	-30.9%	34,024	-66.7%	169,588	159,759	6.2%
CRUDE OIL PHY	LO2	20,248	26,199	-22.7%	22,560	-10.2%	178,834	150,032	19.2%
CRUDE OIL PHY	LO3	28,426	13,307	113.6%	13,678	107.8%	135,093	96,042	40.7%
CRUDE OIL PHY	LO4	24,112	17,281	39.5%	22,702	6.2%	183,602	179,551	2.3%
CRUDE OIL PHY	LO5	21,930	0	0.0%	0	0.0%	71,635	53,489	33.9%
ELEC FINSETTLED	PML	0	0	0.0%	0	-	0	0	0.0%
ELEC MISO PEAK	9T	0	0	0.0%	0	0.0%	0	820	-100.0%
ETHANOL	CE1	0	0	0.0%	0	0.0%	275	75	266.7%
ETHANOL	CE3	0	0	0.0%	0	0.0%	150	325	-53.8%
ETHANOL SWAP	CVR	3,155	10,218	-69.1%	3,777	-16.5%	66,358	67,303	-1.4%
ETHANOL SWAP	GVR	375	78	380.8%	0	0.0%	3,493	1,658	110.7%
EURO-DENOMINATED PETRO PROD	NWE	0	0	0.0%	0	-	0	0	0.0%
EUROPEAN JET KEROSENE NWE (PLATTS) A	30	0	0	0.0%	0	0.0%	0	0	0.0%
GASOLINE	GCE	0	0	0.0%	0	0.0%	0	0	0.0%
HEATING OIL CRACK OPTIONS	CH	0	0	0.0%	0	0.0%	0	100	-100.0%
HEATING OIL CRK SPD AVG PRICE OPTIONS	3W	0	0	0.0%	0	0.0%	0	0	0.0%
HEATING OIL PHY	LB	699	0	0.0%	270	158.9%	1,719	2,728	-37.0%
HEATING OIL PHY	OH	54,471	34,288	58.9%	30,558	78.3%	349,478	356,825	-2.1%
HENRY HUB FINANCIAL LAST	E7	4,073	2,722	49.6%	3,501	16.3%	48,008	41,398	16.0%
HO 1 MONTH CLNDR OPTIONS	FA	2,500	0	0.0%	100	2,400.0%	2,600	1,700	52.9%



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Energy Options									
HUSTN SHIP CHNL PIPE SWP	PK	0	0	0.0%	0	-	0	0	0.0%
LLS CRUDE OIL	WJO	0	1,800	-100.0%	0	0.0%	100	6,900	-98.6%
LLS CRUDE OIL	YVO	0	0	0.0%	0	0.0%	0	3,750	-100.0%
MCCLOSKEY ARA ARGS COAL	MTO	0	150	-100.0%	0	0.0%	290	1,600	-81.9%
MCCLOSKEY RCH BAY COAL	MFO	70	0	0.0%	70	0.0%	2,145	0	0.0%
NATURAL GAS	G10	0	0	0.0%	0	0.0%	0	450	-100.0%
NATURAL GAS 1 M CSO FIN	G4	123,150	42,765	188.0%	50,700	142.9%	492,270	430,994	14.2%
NATURAL GAS 2 M CSO FIN	G2	30	2,000	-98.5%	0	0.0%	1,430	11,550	-87.6%
NATURAL GAS 3 M CSO FIN	G3	0	26,000	-100.0%	200	-100.0%	44,246	146,425	-69.8%
NATURAL GAS 5 M CSO FIN	G5	0	0	0.0%	0	0.0%	2,550	4,050	-37.0%
NATURAL GAS 6 M CSO FIN	G6	12,100	6,600	83.3%	5,800	108.6%	96,500	57,270	68.5%
NATURAL GAS OPTION ON CALENDAR STRP	6J	6,660	2,900	129.7%	4,270	56.0%	34,302	12,670	170.7%
NATURAL GAS PHY	KD	6,040	52,787	-88.6%	13,914	-56.6%	201,589	455,817	-55.8%
NATURAL GAS PHY	LN	2,968,079	2,758,657	7.6%	2,554,574	16.2%	21,128,048	24,921,572	-15.2%
NATURAL GAS PHY	ON	420,400	262,943	59.9%	247,661	69.7%	2,234,963	2,224,455	0.5%
NATURAL GAS PHY	ON1	0	0	0.0%	0	-	0	0	0.0%
NATURAL GAS WINTER STRIP	6I	0	0	-	600	-100.0%	2,700	0	-
NG HH 3 MONTH CAL	IC	0	0	0.0%	0	-	0	0	0.0%
N ROCKIES PIPE SWAP	ZR	1,540	0	0.0%	0	0.0%	3,556	4,030	-11.8%
NY HARBOR HEAT OIL SWP	AT	6,009	2,873	109.2%	3,450	74.2%	32,102	35,379	-9.3%
NYISO ZONE G 5MW PEAK OPTIONS	9U	0	0	0.0%	0	0.0%	0	19,830	-100.0%
NYMEX EUROPEAN GASOIL APO	F7	0	0	0.0%	0	0.0%	0	0	0.0%
NYMEX EUROPEAN GASOIL OPT	F8	0	0	0.0%	0	-	0	0	0.0%
PANHANDLE PIPE SWAP	PU	0	0	0.0%	0	0.0%	0	8,640	-100.0%
PETROCHEMICALS	4H	10	643	-98.4%	1,347	-99.3%	6,662	8,377	-20.5%
PETROCHEMICALS	4J	0	0	0.0%	0	0.0%	1,350	2,945	-54.2%
PETROCHEMICALS	4K	0	0	0.0%	0	0.0%	3,300	1,200	175.0%
PETROCHEMICALS	CPR	0	0	0.0%	0	0.0%	0	18	-100.0%
PETRO OUTRIGHT EURO	8H	0	0	0.0%	0	0.0%	0	300	-100.0%
PETRO OUTRIGHT NA	DAP	360	72	400.0%	0	0.0%	552	72	666.7%
PJM MONTHLY	JO	0	0	0.0%	0	-	0	0	0.0%
PJM WES HUB PEAK CAL MTH	6OA	80	0	0.0%	270	-70.4%	800	3,960	-79.8%
PJM WES HUB PEAK CAL MTH	JOA	0	0	0.0%	0	0.0%	880	0	0.0%
PJM WES HUB PEAK LMP 50MW	PMA	84	788	-89.3%	252	-66.7%	7,488	13,817	-45.8%
RBOB 1MO CAL SPD OPTIONS	ZA	0	1,200	-100.0%	0	0.0%	700	6,708	-89.6%
RBOB CALENDAR SWAP	RA	75	50	50.0%	85	-11.8%	1,125	2,865	-60.7%

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Energy Options									
RBOB CRACK	RX	0	0	-	2	-100.0%	2	0	-
RBOB PHY	OB	14,676	13,665	7.4%	20,089	-26.9%	136,124	282,757	-51.9%
RBOB PHY	RF	0	175	-100.0%	0	0.0%	125	1,335	-90.6%
ROTTERDAM 3.5%FUEL OIL CL	Q6	0	0	0.0%	0	0.0%	0	0	0.0%
SAN JUAN PIPE SWAP	PJ	0	0	0.0%	31	-100.0%	2,149	3,240	-33.7%
SHORT TERM	C15	0	0	-	500	-100.0%	500	0	-
SHORT TERM	U11	0	0	0.0%	0	0.0%	1,236	5,970	-79.3%
SHORT TERM	U12	800	0	0.0%	150	433.3%	1,900	4,604	-58.7%
SHORT TERM	U13	100	1,402	-92.9%	0	0.0%	500	3,959	-87.4%
SHORT TERM	U14	0	275	-100.0%	0	0.0%	863	3,630	-76.2%
SHORT TERM	U15	0	500	-100.0%	0	0.0%	797	5,225	-84.7%
SHORT TERM	U22	0	100	-100.0%	50	-100.0%	1,271	2,982	-57.4%
SHORT TERM	U23	0	0	0.0%	0	0.0%	898	1,672	-46.3%
SHORT TERM	U24	0	5	-100.0%	0	0.0%	879	3,225	-72.7%
SHORT TERM	U25	0	0	0.0%	50	-100.0%	152	940	-83.8%
SHORT TERM	U26	200	0	0.0%	0	0.0%	600	292	105.5%
SHORT TERM NATURAL GAS	U01	0	401	-100.0%	0	0.0%	550	3,716	-85.2%
SHORT TERM NATURAL GAS	U02	0	475	-100.0%	1,350	-100.0%	2,798	3,958	-29.3%
SHORT TERM NATURAL GAS	U03	750	53	1,315.1%	100	650.0%	2,279	2,273	0.3%
SHORT TERM NATURAL GAS	U04	0	0	0.0%	375	-100.0%	1,975	1,170	68.8%
SHORT TERM NATURAL GAS	U05	200	0	0.0%	10	1,900.0%	1,630	10,140	-83.9%
SHORT TERM NATURAL GAS	U06	0	625	-100.0%	0	0.0%	1,500	8,670	-82.7%
SHORT TERM NATURAL GAS	U07	250	215	16.3%	0	0.0%	1,851	3,500	-47.1%
SHORT TERM NATURAL GAS	U08	0	762	-100.0%	100	-100.0%	1,477	5,232	-71.8%
SHORT TERM NATURAL GAS	U09	100	433	-76.9%	0	0.0%	1,634	5,214	-68.7%
SHORT TERM NATURAL GAS	U10	0	377	-100.0%	0	0.0%	1,250	6,029	-79.3%
SHORT TERM NATURAL GAS	U16	0	565	-100.0%	0	0.0%	700	7,010	-90.0%
SHORT TERM NATURAL GAS	U17	0	958	-100.0%	0	0.0%	2,296	5,147	-55.4%
SHORT TERM NATURAL GAS	U18	0	0	0.0%	150	-100.0%	1,622	1,697	-4.4%
SHORT TERM NATURAL GAS	U19	0	0	0.0%	100	-100.0%	348	4,560	-92.4%
SHORT TERM NATURAL GAS	U20	0	477	-100.0%	0	0.0%	1,425	4,005	-64.4%
SHORT TERM NATURAL GAS	U21	0	488	-100.0%	0	0.0%	363	3,212	-88.7%
SHORT TERM NATURAL GAS	U27	0	0	0.0%	0	0.0%	425	1,870	-77.3%
SHORT TERM NATURAL GAS	U28	0	0	0.0%	0	0.0%	100	3,255	-96.9%
SHORT TERM NATURAL GAS	U29	50	321	-84.4%	0	0.0%	510	756	-32.5%
SHORT TERM NATURAL GAS	U30	0	970	-100.0%	0	0.0%	100	4,745	-97.9%

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Commodity		VOLUME NOV 2018	VOLUME NOV 2017	% CHG	VOLUME OCT 2018	% CHG	VOLUME Y.T.D 2018	VOLUME Y.T.D 2017	% CHG
Energy Options									
SHORT TERM NATURAL GAS	U31	0	0	0.0%	0	0.0%	27	6,250	-99.6%
SINGAPORE GASOIL CALENDAR	M2	0	0	0.0%	0	0.0%	0	0	0.0%
SINGAPORE JET FUEL CALEND	N2	0	0	0.0%	0	0.0%	0	0	0.0%
SOCAL PIPE SWAP	ZN	0	0	0.0%	0	0.0%	0	0	0.0%
WTI-BRENT BULLET SWAP	BV	31,435	70,074	-55.1%	31,844	-1.3%	838,730	505,551	65.9%
WTI CRUDE OIL 1 M CSO FI	7A	144,140	129,300	11.5%	87,050	65.6%	867,040	700,815	23.7%
Metals Futures									
COMEX GOLD	GC	6,351,240	8,623,338	-26.3%	6,470,243	-1.8%	76,169,581	67,615,584	12.7%
NYMEX HOT ROLLED STEEL	HR	11,986	4,598	160.7%	9,665	24.0%	112,364	57,698	94.7%
NYMEX PLATINUM	PL	372,849	381,004	-2.1%	383,720	-2.8%	4,965,634	4,282,625	15.9%
PALLADIUM	PA	148,110	153,217	-3.3%	116,003	27.7%	1,358,824	1,329,850	2.2%
URANIUM	UX	2,169	978	121.8%	827	162.3%	6,448	5,452	18.3%
COMEX SILVER	SI	2,299,125	2,539,514	-9.5%	1,793,534	28.2%	22,686,431	21,646,889	4.8%
COMEX E-Mini GOLD	QO	9,527	7,107	34.1%	11,250	-15.3%	91,830	87,450	5.0%
COMEX E-Mini SILVER	QI	1,047	806	29.9%	936	11.9%	12,554	8,890	41.2%
COMEX COPPER	HG	2,546,723	2,992,429	-14.9%	2,625,852	-3.0%	31,303,966	24,698,340	26.7%
COMEX MINY COPPER	QC	337	629	-46.4%	415	-18.8%	4,933	7,642	-35.4%
ALUMINUM	A38	0	0	0.0%	72	-100.0%	72	30	140.0%
ALUMINUM	AEP	3,847	2,886	33.3%	2,425	58.6%	18,577	27,623	-32.7%
ALUMINUM	ALA	240	75	220.0%	40	500.0%	5,755	5,425	6.1%
ALUMINUM	ALI	0	0	0.0%	0	0.0%	0	5,755	-100.0%
ALUMINUM	AUP	8,126	4,762	70.6%	8,603	-5.5%	95,488	76,347	25.1%
ALUMINUM	CUP	0	0	-	0	0.0%	205	0	-
ALUMINUM	EDP	1,605	480	234.4%	3,770	-57.4%	17,096	9,630	77.5%
ALUMINUM	MJP	540	1,695	-68.1%	1,620	-66.7%	12,375	15,563	-20.5%
COPPER	HGS	1,417	3,437	-58.8%	2,611	-45.7%	16,263	5,043	222.5%
E-MICRO GOLD	MGC	161,742	112,421	43.9%	246,996	-34.5%	1,645,616	1,058,548	55.5%
FERROUS PRODUCTS	BUS	1,888	170	1,010.6%	2,407	-21.6%	18,975	1,390	1,265.1%
GOLD	GPS	0	0	0.0%	0	0.0%	0	1	-100.0%
Gold Kilo	GCK	0	285	-100.0%	0	0.0%	136	3,561	-96.2%
IRON ORE 62 CHINA PLATTS FUTURES	PIO	0	870	-100.0%	0	0.0%	0	9,432	-100.0%
IRON ORE 62 CHINA TSI FUTURES	TIO	4,793	3,700	29.5%	4,792	0.0%	42,546	87,374	-51.3%
LNDN ZINC	ZNC	2,931	10	29,210.0%	4,601	-36.3%	13,475	125	10,680.0%

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Commodity		VOLUME NOV 2018	VOLUME NOV 2017	% CHG	VOLUME OCT 2018	% CHG	VOLUME Y.T.D 2018	VOLUME Y.T.D 2017	% CHG
Metals Futures									
METALS	LED	0	0	0.0%	0	-	0	0	0.0%
SILVER	SIL	12,447	7,866	58.2%	9,494	31.1%	89,789	66,270	35.5%
Metals Options									
COMEX COPPER	HX	40,977	12,675	223.3%	45,773	-10.5%	326,243	87,361	273.4%
COMEX GOLD	OG	888,967	738,327	20.4%	1,173,373	-24.2%	10,780,350	9,145,299	17.9%
COMEX SILVER	SO	169,002	104,738	61.4%	146,547	15.3%	1,732,450	1,326,945	30.6%
COPPER	H1E	115	0	-	12	858.3%	162	0	-
COPPER	H2E	12	0	-	23	-47.8%	148	0	-
COPPER	H3E	6	0	-	6	0.0%	113	0	-
COPPER	H4E	2	0	-	0	0.0%	171	0	-
COPPER	H5E	0	0	-	0	0.0%	12	0	-
GOLD	OG1	9,314	8,290	12.4%	18,142	-48.7%	122,540	42,714	186.9%
GOLD	OG2	10,790	8,959	20.4%	21,515	-49.8%	112,898	42,299	166.9%
GOLD	OG3	17,031	4,609	269.5%	13,503	26.1%	126,037	41,435	204.2%
GOLD	OG4	6,663	3,274	103.5%	7,167	-7.0%	78,483	23,013	241.0%
GOLD	OG5	6,833	0	0.0%	0	0.0%	32,861	9,631	241.2%
HOT ROLLED COIL STEEL CALL OPTION	HRO	300	0	0.0%	0	0.0%	300	330	-9.1%
IRON ORE 62 CHINA TSI CALL OPTION	ICT	0	1,284	-100.0%	0	0.0%	200	18,094	-98.9%
IRON ORE 62 CHINA TSI PUT OPTION	ICT	0	750	-100.0%	0	0.0%	1,280	26,105	-95.1%
NYMEX PLATINUM	PO	2,721	3,699	-26.4%	2,900	-6.2%	42,819	30,564	40.1%
PALLADIUM	PAO	953	6,866	-86.1%	1,098	-13.2%	28,688	65,090	-55.9%
SILVER	SO1	572	15	3,713.3%	1,204	-52.5%	5,550	681	715.0%
SILVER	SO2	914	4	22,750.0%	1,036	-11.8%	5,118	217	2,258.5%
SILVER	SO3	747	18	4,050.0%	666	12.2%	6,771	607	1,015.5%
SILVER	SO4	742	1	74,100.0%	385	92.7%	3,919	188	1,984.6%
SILVER	SO5	654	0	0.0%	0	0.0%	2,746	4	68,550.0%

NYMEX/COMEX Exchange Volume Report - Monthly

Commodity	VOLUME NOV 2018	VOLUME NOV 2017	% CHG	VOLUME OCT 2018	% CHG	VOLUME Y.T.D 2018	VOLUME Y.T.D 2017	% CHG
TOTAL FUTURES GROUP								
Ag Products Futures	1	5	-80.0%	7	-85.7%	84	189	-55.6%
Energy Futures	55,332,509	48,586,528	13.9%	50,103,240	10.4%	524,226,701	524,104,526	0.0%
Metals Futures	11,942,689	14,842,277	-19.5%	11,699,876	2.1%	138,688,933	121,112,537	14.5%
TOTAL FUTURES	67,275,199	63,428,810	6.1%	61,803,123	8.9%	662,915,718	645,217,252	2.7%
TOTAL OPTIONS GROUP								
Energy Options	10,330,132	7,901,436	30.7%	7,941,876	30.1%	74,275,457	75,025,772	-1.0%
Metals Options	1,157,315	893,509	29.5%	1,433,350	-19.3%	13,409,859	10,860,577	23.5%
TOTAL OPTIONS	11,487,447	8,794,945	30.6%	9,375,226	22.5%	87,685,316	85,886,349	2.1%
TOTAL COMBINED								
Ag Products	1	5	-80.0%	7	-85.7%	84	189	-55.6%
Energy	65,662,641	56,487,964	16.2%	58,045,116	13.1%	598,502,158	599,130,298	-0.1%
Metals	13,100,004	15,735,786	-16.8%	13,133,226	-0.3%	152,098,792	131,973,114	15.2%
GRAND TOTAL	78,762,646	72,223,755	9.1%	71,178,349	10.7%	750,601,034	731,103,601	2.7%