



NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME NOV 2019	VOLUME NOV 2018	% CHG	VOLUME OCT 2019	% CHG	VOLUME Y.T.D 2019	VOLUME Y.T.D 2018	% CHG
Ag Products Futures									
COCOA TAS	CJ	0	0	0.0%	0	0.0%	8	5	60.0%
COFFEE	KT	2	0	0.0%	0	-	2	0	0.0%
COTTON	TT	0	1	-100.0%	2	-100.0%	38	21	81.0%
SUGAR 11	YO	0	0	0.0%	0	0.0%	10	58	-82.8%
Energy Futures									
CRUDE OIL PHY	CL	19,066,149	27,570,561	-30.8%	23,298,393	-18.2%	272,138,115	283,704,314	-4.1%
CRUDE OIL	WS	0	0	0.0%	0	0.0%	16,694	15,639	6.7%
MINY WTI CRUDE OIL	QM	358,951	615,655	-41.7%	457,072	-21.5%	5,161,441	4,074,872	26.7%
BRENT OIL LAST DAY	BZ	1,741,580	2,270,269	-23.3%	2,296,390	-24.2%	23,835,848	20,164,866	18.2%
HEATING OIL PHY	HO	3,973,786	4,516,781	-12.0%	5,096,923	-22.0%	39,684,108	43,038,884	-7.8%
HTG OIL	BH	0	24	-100.0%	0	0.0%	96	120	-20.0%
MINY HTG OIL	QH	4	4	0.0%	3	33.3%	36	44	-18.2%
RBOB PHY	RB	3,585,704	3,953,762	-9.3%	3,832,477	-6.4%	46,413,988	46,209,208	0.4%
MINY RBOB GAS	QU	6	6	0.0%	3	100.0%	69	43	60.5%
NATURAL GAS	HP	96,856	217,970	-55.6%	114,221	-15.2%	1,245,485	1,344,513	-7.4%
LTD NAT GAS	HH	291,576	636,172	-54.2%	271,717	7.3%	3,312,657	4,184,755	-20.8%
MINY NATURAL GAS	QG	58,117	112,587	-48.4%	56,835	2.3%	385,549	387,461	-0.5%
PJM MONTHLY	JM	0	0	0.0%	0	0.0%	0	0	0.0%
NATURAL GAS PHY	NG	9,960,500	14,219,346	-30.0%	10,971,151	-9.2%	94,057,178	106,404,804	-11.6%
RBOB GAS	RT	0	0	0.0%	12	-100.0%	84	14,386	-99.4%
3.5% FUEL OIL CID MED SWA	7D	0	0	0.0%	0	0.0%	97	612	-84.2%
3.5% FUEL OIL CIF BALMO S	8D	0	0	0.0%	0	0.0%	20	95	-78.9%
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%
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%
ANR OKLAHOMA	NE	0	0	0.0%	0	0.0%	0	0	0.0%
ARGUS LLS VS. WTI (ARG) T	E5	3,935	18,221	-78.4%	6,881	-42.8%	87,329	241,016	-63.8%
ARGUS PROPAN FAR EST INDE	7E	5,190	5,595	-7.2%	5,646	-8.1%	67,455	65,519	3.0%
ARGUS PROPAN(SAUDI ARAMCO	9N	2,747	2,726	0.8%	2,592	6.0%	32,699	31,145	5.0%

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Energy Futures									
AUSTRIALIAN COKE COAL	ACT	0	0	0.0%	0	0.0%	0	20	-100.0%
AUSTRIALIAN COKE COAL	ALW	0	0	0.0%	0	0.0%	0	0	0.0%
BRENT BALMO SWAP	J9	0	0	0.0%	197	-100.0%	1,960	285	587.7%
BRENT CALENDAR SWAP	CY	7,638	2,125	259.4%	14,473	-47.2%	81,795	38,237	113.9%
BRENT CFD SWAP	6W	0	0	0.0%	0	0.0%	0	300	-100.0%
BRENT FINANCIAL FUTURES	BB	0	1,000	-100.0%	0	0.0%	7,000	20,864	-66.4%
BRENT FINANCIAL FUTURES	MBC	58	0	0.0%	100	-42.0%	1,539	127	1,111.8%
BRENT FINANCIAL FUTURES	MDB	0	0	0.0%	0	0.0%	0	224	-100.0%
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	0.0%
CAISO SP15 EZGNHUB5 PEAK	9Z	0	0	0.0%	0	-	0	0	0.0%
CANADIAN LIGHT SWEET OIL	CIL	0	0	0.0%	0	0.0%	0	0	0.0%
CENTERPOINT BASIS SWAP	PW	0	0	0.0%	0	0.0%	0	36	-100.0%
CHICAGO ETHANOL SWAP	CU	75,564	87,007	-13.2%	85,919	-12.1%	1,107,340	1,054,398	5.0%
CHICAGO ULSD (PLATTS) SWA	4C	0	0	0.0%	0	-	0	0	0.0%
CHICAGO ULSD PL VS HO SPR	5C	651	932	-30.2%	141	361.7%	6,016	5,007	20.2%
CHICAGO UNL GAS PL VS RBO	3C	0	0	0.0%	0	0.0%	1,370	950	44.2%
CIG BASIS	CI	0	0	0.0%	0	0.0%	0	221	-100.0%
CIG ROCKIES NG INDEX SWA	Z8	0	0	0.0%	0	-	0	0	0.0%
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	0	0.0%
CIN HUB 5MW D AH PK	H5	0	538	-100.0%	200	-100.0%	4,872	12,376	-60.6%
CIN HUB 5MW REAL TIME O P	H4	0	0	0.0%	0	0.0%	3,920	0	0.0%
CIN HUB 5MW REAL TIME PK	H3	0	0	0.0%	0	0.0%	325	1,505	-78.4%
COAL SWAP	ACM	0	60	-100.0%	0	0.0%	0	570	-100.0%
COAL SWAP	SSI	0	0	0.0%	0	-	0	0	0.0%
COLUMB GULF MAINLINE NG B	5Z	0	0	0.0%	0	0.0%	364	0	0.0%
COLUMBIA GULF ONSHORE	GL	0	0	0.0%	0	-	0	0	0.0%
CONWAY NATURAL GASOLINE (OPIS) SWAP	8L	222	916	-75.8%	70	217.1%	2,584	2,654	-2.6%
CONWAY NORMAL BUTANE (OPIS) SWAP	8M	675	70	864.3%	450	50.0%	5,417	2,831	91.3%
CONWAY PROPANE 5 DECIMALS SWAP	8K	12,903	13,728	-6.0%	12,636	2.1%	160,913	175,002	-8.1%
CRUDE OIL	LPS	3,300	3,600	-8.3%	3,850	-14.3%	33,110	48,985	-32.4%
CRUDE OIL OUTRIGHTS	42	285	192	48.4%	260	9.6%	4,250	2,677	58.8%
CRUDE OIL OUTRIGHTS	CC5	960	30	3,100.0%	510	88.2%	4,781	330	1,348.8%



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Energy Futures									
CRUDE OIL OUTRIGHTS	CPD	0	0	0.0%	0	0.0%	0	2,956	-100.0%
CRUDE OIL OUTRIGHTS	CSN	0	0	0.0%	0	-	0	0	0.0%
CRUDE OIL OUTRIGHTS	CSW	40	30	33.3%	46	-13.0%	3,278	2,315	41.6%
CRUDE OIL OUTRIGHTS	DBL	0	0	0.0%	330	-100.0%	730	99	637.4%
CRUDE OIL OUTRIGHTS	FE	0	0	0.0%	0	-	0	0	0.0%
CRUDE OIL OUTRIGHTS	GSW	15	0	0.0%	5	200.0%	296	105	181.9%
CRUDE OIL OUTRIGHTS	HTT	65,605	38,047	72.4%	62,036	5.8%	641,505	529,495	21.2%
CRUDE OIL OUTRIGHTS	LSW	1,305	0	0.0%	15	8,600.0%	4,488	335	1,239.7%
CRUDE OIL OUTRIGHTS	SSW	0	0	0.0%	0	0.0%	0	0	0.0%
CRUDE OIL OUTRIGHTS	UMD	0	0	0.0%	0	0.0%	0	4,800	-100.0%
CRUDE OIL OUTRIGHTS	UNS	0	0	0.0%	0	0.0%	0	7,554	-100.0%
CRUDE OIL OUTRIGHTS	WCC	0	0	0.0%	0	0.0%	0	0	0.0%
CRUDE OIL OUTRIGHTS	WCW	2,770	2,162	28.1%	3,278	-15.5%	42,210	65,018	-35.1%
CRUDE OIL PHY	CLL	0	0	0.0%	0	0.0%	0	0	0.0%
CRUDE OIL PHY	HCL	6,630	10,095	-34.3%	6,833	-3.0%	175,493	10,095	1,638.4%
CRUDE OIL SPRDS	38	150	0	0.0%	0	0.0%	150	2,055	-92.7%
CRUDE OIL SPRDS	HIL	0	0	-	180	-100.0%	900	0	-
CRUDE OIL SPRDS	WTT	12,860	10,718	20.0%	20,109	-36.0%	228,584	415,278	-45.0%
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%
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	0.0%
DATED TO FRONTLINE BRENT	FY	0	0	0.0%	0	0.0%	1,000	3,360	-70.2%
DIESEL 10P BRG FOB RDM VS	7X	0	0	0.0%	0	0.0%	0	5	-100.0%
DIESEL 10PPM BARGES FOB B	U7	0	0	0.0%	0	-	0	0	0.0%

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Energy Futures									
DOMINION TRAN INC - APP I	IH	0	0	0.0%	0	0.0%	0	0	0.0%
DOMINION TRANSMISSION INC	PG	0	0	0.0%	0	0.0%	0	126	-100.0%
DUBAI CRUDE OIL BALMO	BI	0	0	0.0%	0	0.0%	0	125	-100.0%
DUBAI CRUDE OIL CALENDAR	DC	240	15,305	-98.4%	0	0.0%	18,055	99,807	-81.9%
DUTCH TTF NATURAL GAS CAL MONTH FUT	TTF	25,206	3,685	584.0%	21,292	18.4%	126,840	18,081	601.5%
DY EURO 3.5% FUEL OI RDA	FOR	0	0	0.0%	0	-	0	0	0.0%
EASTERN RAIL DELIVERY CSX	QX	0	0	0.0%	0	0.0%	0	245	-100.0%
EAST/WEST FUEL OIL SPREAD	EW	0	0	0.0%	0	0.0%	20	187	-89.3%
EIA FLAT TAX ONHWAY DIESE	A5	36	313	-88.5%	29	24.1%	3,422	3,170	7.9%
ELEC ERCOT DLY OFF PK	I4	0	0	0.0%	0	0.0%	0	0	0.0%
ELEC ERCOT DLY PEAK	I3	0	0	0.0%	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 OFF PEAK	I2	0	0	0.0%	0	0.0%	0	19,600	-100.0%
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%
ELEC MISO PEAK	4L	0	0	0.0%	0	0.0%	0	0	0.0%
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	0	0.0%
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	0.0%
ELECTRICITY OFF PEAK	46	0	0	0.0%	0	0.0%	0	0	0.0%
ELECTRICITY OFF PEAK	4P	0	55,380	-100.0%	0	0.0%	0	55,380	-100.0%
ELECTRICITY OFF PEAK	50	0	0	0.0%	0	-	0	0	0.0%
ELEC WEST POWER OFF-PEAK	MDA	0	0	0.0%	0	-	0	0	0.0%
ELEC WEST POWER PEAK	MDC	0	0	0.0%	0	-	0	0	0.0%
ERCOT DAILY 5MW PEAK	ERW	0	0	0.0%	0	-	0	0	0.0%
ERCOT HOUSTON Z MCPE 5MW PEAK SWAP	I1	0	0	0.0%	0	0.0%	0	1,950	-100.0%
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	0	0.0%	0	0.0%	0	19,600	-100.0%
ERCOT NORTH ZMCPE 5MW PEAK	I5	0	0	0.0%	0	0.0%	0	5,050	-100.0%
ETHANOL	MTH	0	0	-	10	-100.0%	50	0	-
ETHANOL	Z1B	0	0	-	0	0.0%	0	0	-
ETHANOL SWAP	MT2	70	270	-74.1%	120	-41.7%	960	670	43.3%
ETHANOL T2 FOB ROTT INCL DUTY SWAP	Z1	5,541	6,461	-14.2%	6,203	-10.7%	41,013	37,812	8.5%
EURO 1% FUEL OIL NEW BALM	KX	0	0	0.0%	0	0.0%	3	33	-90.9%
EURO 3.5% FUEL OIL RDAM B	KR	95	235	-59.6%	13	630.8%	566	5,674	-90.0%



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Energy Futures									
EURO 3.5% FUEL OIL SPREAD	FK	10	0	0.0%	25	-60.0%	182	840	-78.3%
EURO-DENOMINATED PETRO PROD	NCP	0	0	0.0%	0	0.0%	0	640	-100.0%
EURO GASOIL 10PPM VS ICE	ET	0	0	0.0%	0	0.0%	0	370	-100.0%
EUROPE 1% FUEL OIL NWE CA	UF	0	120	-100.0%	118	-100.0%	644	546	17.9%
EUROPE 1% FUEL OIL RDAM C	UH	0	0	0.0%	0	0.0%	0	3	-100.0%
EUROPE 3.5% FUEL OIL MED	UI	15	4	275.0%	0	0.0%	400	991	-59.6%
EUROPE 3.5% FUEL OIL RDAM	UV	1,152	3,205	-64.1%	620	85.8%	10,610	77,095	-86.2%
EUROPEAN GASOIL (ICE)	7F	84	1,254	-93.3%	140	-40.0%	1,228	6,929	-82.3%
EUROPEAN NAPHTHA BALMO	KZ	15	184	-91.8%	35	-57.1%	1,448	3,039	-52.4%
EUROPEAN NAPHTHA CRACK SPR	EN	3,101	8,523	-63.6%	1,373	125.9%	40,565	103,391	-60.8%
EUROPE DATED BRENT SWAP	UB	0	2,520	-100.0%	0	0.0%	1,633	4,720	-65.4%
EUROPE JET KERO NWE CALSW	UJ	0	0	0.0%	0	0.0%	8	39	-79.5%
EUROPE NAPHTHA CALSWAP	UN	567	2,614	-78.3%	268	111.6%	17,077	38,106	-55.2%
EURO PROPANE CIF ARA SWA	PS	1,941	2,051	-5.4%	1,820	6.6%	20,962	20,318	3.2%
FLORIDA GAS ZONE3 BASIS S	FP	0	0	0.0%	0	-	0	0	0.0%
FREIGHT MARKETS	ACB	0	0	-	600	-100.0%	1,020	0	-
FREIGHT MARKETS	FLP	25	337	-92.6%	82	-69.5%	1,516	2,185	-30.6%
FREIGHT MARKETS	FRC	0	0	0.0%	340	-100.0%	1,652	600	175.3%
FREIGHT MARKETS	FRS	10	0	0.0%	0	0.0%	80	0	0.0%
FREIGHT MARKETS	T2D	390	1,215	-67.9%	1,145	-65.9%	6,090	4,673	30.3%
FREIGHT MARKETS	TC6	0	0	0.0%	0	0.0%	0	240	-100.0%
FREIGHT MARKETS	TD3	0	0	0.0%	0	0.0%	140	30	366.7%
FREIGHT MARKETS	TD8	0	0	0.0%	0	0.0%	60	150	-60.0%
FREIGHT MARKETS	USC	0	0	-	10	-100.0%	280	0	-
FUEL OIL CRACK VS ICE	FO	2,049	1,442	42.1%	1,700	20.5%	19,161	37,502	-48.9%
FUEL OIL NWE CRACK VS ICE	FI	0	0	0.0%	0	0.0%	15	171	-91.2%
FUEL OIL (PLATS) CAR CM	1W	0	0	0.0%	0	0.0%	6	154	-96.1%
FUEL OIL (PLATS) CAR CN	1X	0	0	0.0%	0	0.0%	0	120	-100.0%
FUELOIL SWAP:CARGOES VS.B	FS	55	15	266.7%	90	-38.9%	1,584	2,129	-25.6%
GAS EURO-BOB OXY NWE BARGES	7H	1,890	5,318	-64.5%	1,355	39.5%	50,067	81,582	-38.6%
GAS EURO-BOB OXY NWE BARGES CRK	7K	8,606	12,780	-32.7%	5,286	62.8%	86,280	198,152	-56.5%
GASOIL 0.1 CIF MED SWAP	Z4	0	0	0.0%	0	-	0	0	0.0%
GASOIL 0.1CIF MED VS ICE	Z5	0	0	0.0%	0	0.0%	0	10	-100.0%
GASOIL 0.1 CIF NWE VS ISE	TU	0	0	0.0%	0	0.0%	10	0	0.0%
GASOIL 0.1 CIF VS ICE GAS	8W	0	0	0.0%	0	-	0	0	0.0%
GASOIL 0.1 RDAM BRGS VS I	WQ	0	0	0.0%	0	0.0%	21	10	110.0%

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Energy Futures									
GASOIL 0.1 ROTTERDAM BARG	VL	0	26	-100.0%	1	-100.0%	139	1,496	-90.7%
GASOIL 10P CRG CIF NW VS	3V	0	0	0.0%	0	-	0	0	0.0%
GASOIL 10PPM VS ICE SWAP	TP	0	0	0.0%	0	0.0%	39	12	225.0%
GASOIL BULLET SWAP	BG	0	0	0.0%	0	-	0	0	0.0%
GASOIL CALENDAR SWAP	GX	122	12	916.7%	18	577.8%	275	66	316.7%
GASOIL CRACK SPREAD CALEN	GZ	3,672	604	507.9%	1,188	209.1%	10,526	38,106	-72.4%
GASOIL MINI CALENDAR SWAP	QA	1,433	803	78.5%	1,126	27.3%	5,283	2,827	86.9%
GERMAN POWER BASELOAD CAL MONTH FU	DEB	811	1,377	-41.1%	1,440	-43.7%	23,953	4,479	434.8%
GROUP THREE ULSD (PLATTS)	A7	0	45	-100.0%	0	0.0%	0	250	-100.0%
GROUP THREE UNLEAD GAS (P	A9	0	0	0.0%	0	0.0%	300	425	-29.4%
GRP THREE ULSD(PLT)VS HEA	A6	1,015	3,826	-73.5%	2,851	-64.4%	36,464	39,259	-7.1%
GRP THREE UNL GS (PLT) VS	A8	1,185	1,735	-31.7%	2,845	-58.3%	27,312	23,342	17.0%
GULF COAST 3% FUEL OIL BA	VZ	304	703	-56.8%	694	-56.2%	8,828	13,602	-35.1%
GULF COAST JET FUEL CLNDR	GE	0	207	-100.0%	0	0.0%	267	1,402	-81.0%
GULF COAST JET VS NYM 2 H	ME	7,160	22,758	-68.5%	13,552	-47.2%	210,663	387,389	-45.6%
GULF COAST NO.6 FUEL OIL	MF	15,229	30,573	-50.2%	16,669	-8.6%	241,126	577,851	-58.3%
GULF COAST NO.6 FUEL OIL	MG	700	830	-15.7%	795	-11.9%	3,138	17,306	-81.9%
GULF COAST ULSD CALENDAR	LY	96	254	-62.2%	92	4.3%	3,816	3,573	6.8%
GULF COAST ULSD CRACK SPR	GY	0	240	-100.0%	0	0.0%	360	1,655	-78.2%
HEATING OIL BALMO CLNDR S	1G	0	0	0.0%	0	0.0%	565	243	132.5%
HEATING OIL CRCK SPRD BAL	1H	0	0	-	0	0.0%	18	0	-
HEATING OIL PHY	HOL	0	0	0.0%	0	0.0%	0	0	0.0%
HENRY HUB BASIS SWAP	HB	4,960	0	0.0%	600	726.7%	21,170	32,088	-34.0%
HENRY HUB FINANCIAL LAST	NBP	0	0	0.0%	0	0.0%	0	26,818	-100.0%
HENRY HUB FINANCIAL LAST	TTE	0	0	0.0%	0	0.0%	0	885	-100.0%
HENRY HUB INDEX SWAP FUTU	IN	4,960	0	0.0%	600	726.7%	21,170	32,088	-34.0%
HENRY HUB SWAP	NN	88,866	167,365	-46.9%	49,341	80.1%	1,060,024	1,849,116	-42.7%
HOUSTON SHIP CHANNEL BASI	NH	0	0	0.0%	0	0.0%	736	0	0.0%
HUSTN SHIP CHNL PIPE SWP	XJ	0	0	0.0%	0	-	0	0	0.0%
ICE BRENT DUBAI SWAP	DB	7,875	3,890	102.4%	5,784	36.2%	63,086	104,308	-39.5%
ICE GASOIL BALMO SWAP	U9	0	0	0.0%	0	-	0	0	0.0%
IN DELIVERY MONTH EUA	6T	0	0	0.0%	0	0.0%	0	1,248	-100.0%
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%
INDIANA MISO	PDD	0	0	0.0%	0	0.0%	0	0	0.0%

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Energy Futures									
INDIANA MISO	PTD	0	0	0.0%	0	0.0%	0	0	0.0%
INDONESIAN COAL	MCC	0	0	0.0%	0	-	0	0	0.0%
INDONESIAN COAL ICI4	ICI	125	205	-39.0%	65	92.3%	3,505	1,720	103.8%
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	0	0.0%
JAPAN C&F NAPHTHA CRACK S	JB	0	161	-100.0%	0	0.0%	196	1,890	-89.6%
JAPAN C&F NAPHTHA SWAP	JA	206	1,105	-81.4%	245	-15.9%	10,074	22,215	-54.7%
JAPAN NAPHTHA BALMO SWAP	E6	0	20	-100.0%	0	0.0%	333	628	-47.0%
JET AV FUEL (P) CAR FM ICE GAS SWAP	1V	0	0	0.0%	0	0.0%	0	5	-100.0%
JET CIF NWE VS ICE	JC	0	0	0.0%	30	-100.0%	262	642	-59.2%
JET FUEL BRG FOB RDM VS I	9Q	0	0	0.0%	0	-	0	0	0.0%
JET FUEL CRG CIF NEW VS I	6X	0	0	0.0%	0	0.0%	132	0	0.0%
JET FUEL UP-DOWN BALMO CL	1M	1,775	5,370	-66.9%	4,395	-59.6%	43,348	65,567	-33.9%
JKM LNG Futures	JKM	3,366	3,335	0.9%	4,010	-16.1%	20,742	15,679	32.3%
LA CARB DIESEL (OPIS)	LX	0	0	0.0%	0	-	0	0	0.0%
LA CARB DIESEL (OPIS) SWA	KL	0	125	-100.0%	25	-100.0%	400	3,095	-87.1%
LA CARBOB GASOLINE(OPIS)S	JL	0	410	-100.0%	0	0.0%	2,875	5,510	-47.8%
LA JET FUEL VS NYM NO 2 H	MQ	0	0	0.0%	0	-	0	0	0.0%
LA JET (OPIS) SWAP	JS	275	700	-60.7%	1,375	-80.0%	12,884	21,179	-39.2%
LLS (ARGUS) CALENDAR SWAP	XA	0	0	0.0%	0	0.0%	0	607	-100.0%
LLS (ARGUS) VS WTI SWAP	WJ	1,244	2,800	-55.6%	1,571	-20.8%	19,989	59,429	-66.4%
LOS ANGELES CARB GASOLINE	MH	0	10	-100.0%	0	0.0%	10	10	0.0%
MARS (ARGUS) VS WTI SWAP	YX	200	985	-79.7%	125	60.0%	14,755	22,270	-33.7%
MARS (ARGUS) VS WTI TRD M	YV	13,105	12,665	3.5%	24,632	-46.8%	199,018	219,966	-9.5%
MARS BLEND CRUDE OIL	MB	0	0	0.0%	0	0.0%	0	2,319	-100.0%
MCCLOSKEY ARA ARGS COAL	MTF	30,522	24,979	22.2%	37,497	-18.6%	337,025	262,641	28.3%
MCCLOSKEY RCH BAY COAL	MFF	1,544	2,100	-26.5%	2,858	-46.0%	24,962	32,311	-22.7%
MGF FUT	MGF	0	10	-100.0%	10	-100.0%	10	268	-96.3%
MGN1 SWAP FUT	MGN	10	120	-91.7%	10	0.0%	510	813	-37.3%
MICHIGAN BASIS	NF	0	0	0.0%	0	0.0%	0	0	0.0%
MICHIGAN MISO	HMO	0	0	0.0%	0	0.0%	0	0	0.0%
MICHIGAN MISO	HMW	0	0	0.0%	0	0.0%	0	0	0.0%
MINI GAS EUROBOB OXY NWE ARGS BALMO	MEB	84	362	-76.8%	20	320.0%	2,079	3,798	-45.3%
MINI RBOB V. EBOBARG NWE BRGS BALMO	MXR	0	0	0.0%	90	-100.0%	3,910	3,383	15.6%
MINI RBOB V. EBOB(ARGUS) NWE BRGS	MXB	1,072	1,322	-18.9%	972	10.3%	20,394	20,073	1.6%
MJC FUT	MJC	0	50	-100.0%	0	0.0%	150	1,460	-89.7%



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Energy Futures									
MNC FUT	MNC	1,385	5,026	-72.4%	1,640	-15.5%	35,961	45,790	-21.5%
MONT BELVIEU ETHANE 5 DECIMAL	C0	11,813	8,446	39.9%	15,481	-23.7%	173,360	172,811	0.3%
MONT BELVIEU ETHANE OPIS BALMO	8C	110	80	37.5%	30	266.7%	1,504	1,690	-11.0%
MONT BELVIEU LDH PROPANE 5 DECIMAL	B0	135,386	136,581	-0.9%	143,821	-5.9%	1,587,630	1,382,491	14.8%
MONT BELVIEU LDH PROPANE OPIS BALMO	8O	1,764	1,871	-5.7%	1,915	-7.9%	30,550	27,019	13.1%
MONT BELVIEU NATURAL GASOLINE 5 DEC	7Q	14,486	7,858	84.3%	10,315	40.4%	98,706	91,947	7.4%
MONT BELVIEU NATURAL GASOLINE BALMO	R0	685	40	1,612.5%	747	-8.3%	7,156	3,626	97.4%
MONT BELVIEU NORMAL BUTANE 5 DECIMAL	D0	57,022	32,903	73.3%	48,111	18.5%	529,447	399,925	32.4%
MONT BELVIEU NORMAL BUTANE BALMO	8J	916	920	-0.4%	1,395	-34.3%	13,905	11,989	16.0%
NAT GAS BASIS SWAP	TZ6	0	0	0.0%	0	0.0%	0	0	0.0%
NATURAL GAS	XIC	0	0	0.0%	0	0.0%	0	0	0.0%
NATURAL GAS FIXED PRICE SWAP FUTURES	DSF	0	0	0.0%	0	-	0	0	0.0%
NATURAL GAS INDEX	TZI	0	0	0.0%	0	-	0	0	0.0%
NATURAL GAS PEN SWP	NP	33,654	54,632	-38.4%	20,133	67.2%	329,369	390,190	-15.6%
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%	0	0.0%	71,600	136,440	-47.5%
NEPOOL INTR HUB 5MW D AH	U6	0	0	0.0%	220	-100.0%	220	12,711	-98.3%
NEPOOL NE MASS 5MW D AH O	P8	0	0	0.0%	0	0.0%	0	0	0.0%
NEPOOL NE MASS 5MW D AH P	P7	0	0	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 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	1,380	337	309.5%	1,095	26.0%	9,348	12,028	-22.3%
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	0	1,300	-100.0%	0	0.0%	1,760	4,748	-62.9%
NGPL TEX/OK	PD	0	3,080	-100.0%	0	0.0%	2,696	47,716	-94.3%
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%	100	-100.0%	925	2,983	-69.0%
NORTHEN NATURAL GAS DEMAR	PE	0	0	0.0%	0	0.0%	0	0	0.0%
NORTHEN NATURAL GAS VENTU	PF	0	0	0.0%	0	0.0%	0	100	-100.0%
NORTHERN ILLINOIS OFF-PEA	UO	0	0	0.0%	0	-	0	0	0.0%

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Energy Futures									
NORTHWEST ROCKIES BASIS S	NR	0	0	0.0%	0	0.0%	3,106	0	0.0%
N ROCKIES PIPE SWAP	XR	0	0	0.0%	0	0.0%	0	59	-100.0%
NY1% VS GC SPREAD SWAP	VR	305	510	-40.2%	385	-20.8%	4,987	13,908	-64.1%
NY 2.2% FUEL OIL (PLATTS	Y3	0	0	0.0%	0	-	0	0	0.0%
NY 3.0% FUEL OIL (PLATTS	H1	0	0	0.0%	0	0.0%	775	1,795	-56.8%
NY HARBOR 1% FUEL OIL BAL	VK	0	0	0.0%	0	0.0%	25	50	-50.0%
NY HARBOR HEAT OIL SWP	MP	715	4,723	-84.9%	3,549	-79.9%	23,017	27,783	-17.2%
NY HARBOR LOW SULPUR GAS 1000MBBL	NLS	0	600	-100.0%	0	0.0%	390	3,445	-88.7%
NY HARBOR RESIDUAL FUEL 1	MM	2,305	621	271.2%	710	224.6%	9,368	11,413	-17.9%
NY HARBOR RESIDUAL FUEL C	ML	0	50	-100.0%	0	0.0%	0	50	-100.0%
NYH NO 2 CRACK SPREAD CAL	HK	150	534	-71.9%	900	-83.3%	5,175	8,576	-39.7%
NYISO A	KA	0	0	0.0%	0	-	0	0	0.0%
NYISO A OFF-PEAK	KB	0	0	0.0%	0	-	0	0	0.0%
NYISO CAPACITY	LHV	0	0	0.0%	0	0.0%	620	646	-4.0%
NYISO CAPACITY	NNC	0	60	-100.0%	0	0.0%	0	795	-100.0%
NYISO CAPACITY	NRS	0	0	0.0%	0	0.0%	60	335	-82.1%
NYISO G	KG	0	0	0.0%	0	-	0	0	0.0%
NYISO G OFF-PEAK	KH	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%	0	0.0%	0	44,264	-100.0%
NYISO ZONE A 5MW D AH PK	K3	0	0	0.0%	0	0.0%	0	1,890	-100.0%
NYISO ZONE C 5MW D AH O P	A3	0	0	0.0%	0	-	0	0	0.0%
NYISO ZONE C 5MW D AH PK	Q5	0	0	0.0%	0	-	0	0	0.0%
NYISO ZONE G 5MW D AH O P	D2	0	11,550	-100.0%	0	0.0%	101,424	626,384	-83.8%
NYISO ZONE G 5MW D AH PK	T3	0	635	-100.0%	220	-100.0%	8,394	21,159	-60.3%
NYISO ZONE J 5MW D AH O P	D4	0	0	0.0%	0	0.0%	0	0	0.0%
NYISO ZONE J 5MW D AH PK	D3	0	0	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%	550	-100.0%	2,000	0	0.0%
NY ULSD (ARGUS) VS HEATING OIL	7Y	0	0	0.0%	1,175	-100.0%	2,770	213	1,200.5%
ONEOK OKLAHOMA NG BASIS	8X	0	0	0.0%	0	0.0%	1,860	2,704	-31.2%
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%
ONTARIO POWER SWAPS	OPD	0	0	0.0%	0	0.0%	25	10	150.0%
ONTARIO POWER SWAPS	OPM	0	0	0.0%	0	0.0%	100	0	0.0%

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Energy Futures									
PANHANDLE BASIS SWAP FUTU	PH	0	0	0.0%	0	0.0%	0	275	-100.0%
PANHANDLE PIPE SWAP	XH	0	0	0.0%	0	0.0%	0	0	0.0%
PERMIAN BASIS SWAP	PM	0	0	0.0%	0	0.0%	0	0	0.0%
PETROCHEMICALS	22	160	108	48.1%	200	-20.0%	1,883	1,978	-4.8%
PETROCHEMICALS	32	89	51	74.5%	119	-25.2%	1,138	1,634	-30.4%
PETROCHEMICALS	3NA	0	5	-100.0%	0	0.0%	49	11	345.5%
PETROCHEMICALS	51	0	0	0.0%	2	-100.0%	79	23	243.5%
PETROCHEMICALS	8I	1,049	0	0.0%	804	30.5%	7,667	6,760	13.4%
PETROCHEMICALS	91	627	477	31.4%	523	19.9%	5,604	4,798	16.8%
PETROCHEMICALS	HPE	0	0	0.0%	0	-	0	0	0.0%
PETROCHEMICALS	MAA	0	0	0.0%	0	0.0%	280	50	460.0%
PETROCHEMICALS	MAC	0	0	0.0%	0	-	0	0	0.0%
PETROCHEMICALS	MAE	408	522	-21.8%	160	155.0%	4,069	2,564	58.7%
PETROCHEMICALS	MAS	40	370	-89.2%	208	-80.8%	2,282	2,081	9.7%
PETROCHEMICALS	MBE	700	360	94.4%	260	169.2%	3,965	8,890	-55.4%
PETROCHEMICALS	MNB	390	1,272	-69.3%	85	358.8%	6,530	19,650	-66.8%
PETROCHEMICALS	MPS	224	203	10.3%	133	68.4%	2,424	1,353	79.2%
PETRO CRCKS & SPRDS ASIA	JNC	0	0	0.0%	0	0.0%	0	0	0.0%
PETRO CRCKS & SPRDS ASIA	STI	0	0	0.0%	0	0.0%	50	0	0.0%
PETRO CRCKS & SPRDS ASIA	STR	0	300	-100.0%	0	0.0%	0	400	-100.0%
PETRO CRCKS & SPRDS ASIA	STS	0	30	-100.0%	0	0.0%	332	539	-38.4%
PETRO CRCKS & SPRDS NA	CRB	4,200	6,935	-39.4%	6,930	-39.4%	73,016	29,825	144.8%
PETRO CRCKS & SPRDS NA	EXR	2,887	1,897	52.2%	1,465	97.1%	26,907	31,209	-13.8%
PETRO CRCKS & SPRDS NA	FOC	100	200	-50.0%	100	0.0%	3,870	6,975	-44.5%
PETRO CRCKS & SPRDS NA	GBB	125	440	-71.6%	281	-55.5%	6,124	12,725	-51.9%
PETRO CRCKS & SPRDS NA	GCC	0	0	0.0%	0	0.0%	0	1,740	-100.0%
PETRO CRCKS & SPRDS NA	GCI	1,243	539	130.6%	818	52.0%	13,479	14,600	-7.7%
PETRO CRCKS & SPRDS NA	GCM	0	0	0.0%	0	0.0%	300	163	84.0%
PETRO CRCKS & SPRDS NA	GCU	8,240	6,359	29.6%	3,844	114.4%	40,068	122,174	-67.2%
PETRO CRCKS & SPRDS NA	GFC	0	0	0.0%	0	0.0%	100	40	150.0%
PETRO CRCKS & SPRDS NA	HOB	745	453	64.5%	1,074	-30.6%	18,476	9,122	102.5%
PETRO CRCKS & SPRDS NA	KSD	0	0	0.0%	0	-	0	0	0.0%
PETRO CRCKS & SPRDS NA	MFR	0	0	0.0%	0	0.0%	0	4	-100.0%
PETRO CRCKS & SPRDS NA	NFG	0	0	0.0%	0	0.0%	0	50	-100.0%
PETRO CRCKS & SPRDS NA	NYF	50	0	0.0%	0	0.0%	125	0	0.0%
PETRO CRCKS & SPRDS NA	NYH	0	0	0.0%	0	-	0	0	0.0%

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Commodity		VOLUME NOV 2019	VOLUME NOV 2018	% CHG	VOLUME OCT 2019	% CHG	VOLUME Y.T.D 2019	VOLUME Y.T.D 2018	% CHG
Energy Futures									
PETRO CRCKS & SPRDS NA	RBB	2,348	3,315	-29.2%	2,523	-6.9%	71,972	57,610	24.9%
PETRO CRCKS & SPRDS NA	RVG	7,186	14,599	-50.8%	13,555	-47.0%	141,567	174,729	-19.0%
PETRO CRCKS & SPRDS NA	SF3	50	25	100.0%	40	25.0%	1,145	346	230.9%
PETRO CRK&SPRD EURO	1NB	150	1,625	-90.8%	475	-68.4%	10,708	19,716	-45.7%
PETRO CRK&SPRD EURO	1ND	0	0	0.0%	0	0.0%	0	100	-100.0%
PETRO CRK&SPRD EURO	43	0	0	0.0%	0	0.0%	155	3,414	-95.5%
PETRO CRK&SPRD EURO	BFR	0	0	0.0%	0	0.0%	60	0	0.0%
PETRO CRK&SPRD EURO	BOB	186	980	-81.0%	50	272.0%	5,312	17,716	-70.0%
PETRO CRK&SPRD EURO	EGB	0	0	0.0%	0	-	0	0	0.0%
PETRO CRK&SPRD EURO	EGN	0	0	0.0%	0	-	0	0	0.0%
PETRO CRK&SPRD EURO	EOB	30	0	0.0%	0	0.0%	53	222	-76.1%
PETRO CRK&SPRD EURO	EPN	433	693	-37.5%	405	6.9%	6,038	10,486	-42.4%
PETRO CRK&SPRD EURO	EVC	264	1,138	-76.8%	976	-73.0%	6,870	21,132	-67.5%
PETRO CRK&SPRD EURO	FBT	0	0	-	0	0.0%	60	0	-
PETRO CRK&SPRD EURO	FVB	0	0	0.0%	0	0.0%	0	30	-100.0%
PETRO CRK&SPRD EURO	GCB	0	0	0.0%	10	-100.0%	527	680	-22.5%
PETRO CRK&SPRD EURO	GOC	0	0	0.0%	0	0.0%	0	84	-100.0%
PETRO CRK&SPRD EURO	MGB	0	110	-100.0%	40	-100.0%	160	220	-27.3%
PETRO CRK&SPRD EURO	MUD	0	10	-100.0%	20	-100.0%	130	173	-24.9%
PETRO CRK&SPRD EURO	NBB	0	0	0.0%	0	0.0%	58	182	-68.1%
PETRO CRK&SPRD EURO	NOB	73	2,271	-96.8%	36	102.8%	3,509	20,710	-83.1%
PETRO CRK&SPRD EURO	SFB	0	0	0.0%	0	0.0%	56	125	-55.2%
PETROLEUM PRODUCTS	1NM	20	0	-	30	-33.3%	788	0	-
PETROLEUM PRODUCTS	EWB	0	0	0.0%	0	-	0	0	0.0%
PETROLEUM PRODUCTS	EWG	1,095	4,382	-75.0%	1,575	-30.5%	23,200	55,601	-58.3%
PETROLEUM PRODUCTS	H5F	5,168	0	-	0	-	5,168	0	-
PETROLEUM PRODUCTS	JCC	0	0	-	0	0.0%	720	0	-
PETROLEUM PRODUCTS	MBS	0	0	0.0%	0	-	0	0	0.0%
PETROLEUM PRODUCTS	MGS	0	0	0.0%	0	-	0	0	0.0%
PETROLEUM PRODUCTS	MME	0	30	-100.0%	0	0.0%	0	60	-100.0%
PETROLEUM PRODUCTS	MPE	0	0	0.0%	0	0.0%	0	0	0.0%
PETROLEUM PRODUCTS	NCC	0	0	-	0	0.0%	10	0	-
PETROLEUM PRODUCTS	R5F	13	0	-	4	225.0%	32	0	-
PETROLEUM PRODUCTS	S53	0	0	-	5	-100.0%	56	0	-
PETROLEUM PRODUCTS	UP5	1,065	0	-	18	5,816.7%	1,149	0	-
PETROLEUM PRODUCTS	VU	300	295	1.7%	125	140.0%	815	1,339	-39.1%

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Commodity		VOLUME NOV 2019	VOLUME NOV 2018	% CHG	VOLUME OCT 2019	% CHG	VOLUME Y.T.D 2019	VOLUME Y.T.D 2018	% CHG
Energy Futures									
PETROLEUM PRODUCTS ASIA	E6M	20	0	0.0%	20	0.0%	168	714	-76.5%
PETROLEUM PRODUCTS ASIA	MJN	80	2,265	-96.5%	400	-80.0%	13,861	21,300	-34.9%
PETROLEUM PRODUCTS ASIA	MSB	0	0	0.0%	0	0.0%	20	0	0.0%
PETRO OUTRIGHT EURO	0B	16	40	-60.0%	160	-90.0%	467	124	276.6%
PETRO OUTRIGHT EURO	0C	0	0	0.0%	0	0.0%	45	23	95.7%
PETRO OUTRIGHT EURO	0D	545	1,491	-63.4%	766	-28.9%	13,953	14,592	-4.4%
PETRO OUTRIGHT EURO	0E	0	0	0.0%	10	-100.0%	136	238	-42.9%
PETRO OUTRIGHT EURO	0F	52	444	-88.3%	114	-54.4%	3,550	5,575	-36.3%
PETRO OUTRIGHT EURO	1T	0	0	0.0%	0	0.0%	8	39	-79.5%
PETRO OUTRIGHT EURO	33	0	0	0.0%	0	0.0%	0	0	0.0%
PETRO OUTRIGHT EURO	5L	8	40	-80.0%	0	0.0%	236	264	-10.6%
PETRO OUTRIGHT EURO	63	0	40	-100.0%	30	-100.0%	107	217	-50.7%
PETRO OUTRIGHT EURO	6L	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT EURO	7I	46	74	-37.8%	220	-79.1%	985	1,235	-20.2%
PETRO OUTRIGHT EURO	7R	70	73	-4.1%	39	79.5%	1,346	3,006	-55.2%
PETRO OUTRIGHT EURO	88	0	20	-100.0%	6	-100.0%	31	125	-75.2%
PETRO OUTRIGHT EURO	CBB	0	25	-100.0%	35	-100.0%	50	80	-37.5%
PETRO OUTRIGHT EURO	CGB	0	0	0.0%	0	0.0%	20	0	0.0%
PETRO OUTRIGHT EURO	CPB	255	127	100.8%	125	104.0%	2,380	3,453	-31.1%
PETRO OUTRIGHT EURO	EFF	22	21	4.8%	0	0.0%	194	185	4.9%
PETRO OUTRIGHT EURO	EFM	0	0	0.0%	0	0.0%	31	0	0.0%
PETRO OUTRIGHT EURO	ENS	0	0	0.0%	0	0.0%	163	145	12.4%
PETRO OUTRIGHT EURO	ESB	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT EURO	EWN	63	719	-91.2%	178	-64.6%	4,269	7,862	-45.7%
PETRO OUTRIGHT EURO	FBD	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT EURO	FLB	0	0	0.0%	0	0.0%	6	5	20.0%
PETRO OUTRIGHT EURO	GES	0	0	0.0%	0	0.0%	0	5	-100.0%
PETRO OUTRIGHT EURO	H5G	918	0	-	75	1,124.0%	1,257	0	-
PETRO OUTRIGHT EURO	M1B	700	0	-	487	43.7%	1,645	0	-
PETRO OUTRIGHT EURO	M35	0	0	-	5	-100.0%	24	0	-
PETRO OUTRIGHT EURO	MBB	5	50	-90.0%	0	0.0%	5	321	-98.4%
PETRO OUTRIGHT EURO	MBN	10	150	-93.3%	159	-93.7%	3,231	9,117	-64.6%
PETRO OUTRIGHT EURO	MEF	215	361	-40.4%	143	50.3%	3,497	1,500	133.1%
PETRO OUTRIGHT EURO	R53	96	0	-	23	317.4%	203	0	-
PETRO OUTRIGHT EURO	R5M	225	0	-	321	-29.9%	1,608	0	-
PETRO OUTRIGHT EURO	R5O	74	0	-	970	-92.4%	2,229	0	-

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Commodity		VOLUME NOV 2019	VOLUME NOV 2018	% CHG	VOLUME OCT 2019	% CHG	VOLUME Y.T.D 2019	VOLUME Y.T.D 2018	% CHG
Energy Futures									
PETRO OUTRIGHT EURO	S5F	27	0	-	68	-60.3%	136	0	-
PETRO OUTRIGHT EURO	S5M	445	0	-	458	-2.8%	1,714	0	-
PETRO OUTRIGHT EURO	S5O	186	0	-	235	-20.9%	505	0	-
PETRO OUTRIGHT EURO	SMU	0	0	0.0%	125	-100.0%	850	553	53.7%
PETRO OUTRIGHT EURO	T0	0	0	0.0%	0	0.0%	0	9	-100.0%
PETRO OUTRIGHT EURO	T2B	0	0	-	0	0.0%	15	0	-
PETRO OUTRIGHT EURO	TMB	0	0	-	0	0.0%	50	0	-
PETRO OUTRIGHT EURO	ULB	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT EURO	V0	0	0	0.0%	0	0.0%	0	980	-100.0%
PETRO OUTRIGHT EURO	X0	0	0	0.0%	0	0.0%	0	116	-100.0%
PETRO OUTRIGHT NA	FCB	0	0	0.0%	0	0.0%	426	808	-47.3%
PETRO OUTRIGHT NA	FOM	0	0	0.0%	0	0.0%	0	8	-100.0%
PETRO OUTRIGHT NA	JE	0	42	-100.0%	0	0.0%	240	111	116.2%
PETRO OUTRIGHT NA	JET	1,025	1,965	-47.8%	2,825	-63.7%	24,980	33,390	-25.2%
PETRO OUTRIGHT NA	JTB	250	900	-72.2%	548	-54.4%	7,573	7,550	0.3%
PETRO OUTRIGHT NA	MBL	50	0	0.0%	70	-28.6%	324	40	710.0%
PETRO OUTRIGHT NA	MEN	78	373	-79.1%	225	-65.3%	1,757	4,752	-63.0%
PETRO OUTRIGHT NA	MEO	1,995	2,497	-20.1%	1,431	39.4%	24,483	38,503	-36.4%
PETRO OUTRIGHT NA	MFD	35	0	0.0%	43	-18.6%	373	100	273.0%
PETRO OUTRIGHT NA	MMF	0	27	-100.0%	24	-100.0%	819	220	272.3%
PETRO OUTRIGHT NA	NYT	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT NA	XER	0	0	0.0%	0	0.0%	0	300	-100.0%
PJM AD HUB 5MW REAL TIME	V3	0	23,360	-100.0%	0	0.0%	117,180	64,757	81.0%
PJM AD HUB 5MW REAL TIME	Z9	0	1,285	-100.0%	0	0.0%	2,560	14,358	-82.2%
PJM AECO DA OFF-PEAK	X1	0	0	0.0%	0	-	0	0	0.0%
PJM AECO DA PEAK	Y1	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%
PJM APS ZONE DA PEAK	S4	0	0	0.0%	0	-	0	0	0.0%
PJM ATSI ELEC	MOD	0	0	0.0%	0	0.0%	0	0	0.0%
PJM ATSI ELEC	MPD	0	0	0.0%	0	0.0%	0	0	0.0%
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	0	0.0%
PJM COMED 5MW D AH PK	D8	0	0	0.0%	0	0.0%	0	0	0.0%
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	0	0.0%



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Commodity		VOLUME NOV 2019	VOLUME NOV 2018	% CHG	VOLUME OCT 2019	% CHG	VOLUME Y.T.D 2019	VOLUME Y.T.D 2018	% CHG
Energy Futures									
PJM DAYTON DA PEAK	D7	0	0	0.0%	0	0.0%	0	0	0.0%
PJM JCPL DA OFF-PEAK	F2	0	0	0.0%	0	-	0	0	0.0%
PJM JCPL DA PEAK	J2	0	0	0.0%	0	-	0	0	0.0%
PJM NI HUB 5MW REAL TIME	B3	0	0	0.0%	0	0.0%	3,845	6,380	-39.7%
PJM NI HUB 5MW REAL TIME	B6	0	0	0.0%	0	0.0%	70,000	5,925	1,081.4%
PJM NILL DA OFF-PEAK	L3	0	0	0.0%	0	0.0%	0	770	-100.0%
PJM NILL DA PEAK	N3	0	0	0.0%	0	0.0%	0	64	-100.0%
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	0	2,960	-100.0%	0	0.0%	0	2,960	-100.0%
PJM PPL DA OFF-PEAK	F5	0	0	0.0%	0	-	0	0	0.0%
PJM PPL DA PEAK	L5	0	0	0.0%	0	-	0	0	0.0%
PJM PSEG DA OFF-PEAK	W6	0	55,380	-100.0%	0	0.0%	0	78,780	-100.0%
PJM PSEG DA PEAK	L6	0	2,960	-100.0%	0	0.0%	0	4,235	-100.0%
PJM WESTH DA OFF-PEAK	E4	0	0	0.0%	0	0.0%	0	101,810	-100.0%
PJM WESTHDA PEAK	J4	0	0	0.0%	0	0.0%	0	5,525	-100.0%
PJM WESTH RT OFF-PEAK	N9	0	23,360	-100.0%	0	0.0%	47,100	372,480	-87.4%
PJM WESTH RT PEAK	L1	0	1,799	-100.0%	4,355	-100.0%	53,631	60,990	-12.1%
PLASTICS	PGP	736	709	3.8%	802	-8.2%	7,948	5,023	58.2%
PREMIUM UNLD 10P FOB MED	3G	21	446	-95.3%	0	0.0%	858	2,838	-69.8%
PREMIUM UNLEAD 10PPM FOB	8G	0	5	-100.0%	0	0.0%	139	443	-68.6%
PREM UNL GAS 10PPM RDAM FOB BALMO	7N	0	3	-100.0%	0	0.0%	20	83	-75.9%
PREM UNL GAS 10PPM RDAM FOB SWAP	7L	0	0	0.0%	0	0.0%	35	326	-89.3%
PROPANE NON-LDH MB (OPIS) BALMO SWP	1S	773	7	10,942.9%	1,871	-58.7%	15,445	5,196	197.2%
PROPANE NON-LDH MT. BEL (OPIS) SWP	1R	30,849	12,383	149.1%	24,330	26.8%	221,059	139,177	58.8%
RBOB CALENDAR SWAP	RL	6,227	3,612	72.4%	4,190	48.6%	63,421	62,151	2.0%
RBOB CRACK SPREAD	RM	2,060	55	3,645.5%	1,360	51.5%	13,560	9,583	41.5%
RBOB CRACK SPREAD BALMO S	1E	0	0	0.0%	0	0.0%	25	0	0.0%
RBOB GASOLINE BALMO CLNDR	1D	1,587	396	300.8%	198	701.5%	10,405	11,178	-6.9%
RBOB PHY	RBL	0	0	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 VS HEATING OIL SWAP	RH	0	0	0.0%	75	-100.0%	150	1,975	-92.4%
SAN JUAN BASIS SWAP	NJ	0	0	0.0%	0	0.0%	0	58	-100.0%
SAN JUAN PIPE SWAP	XX	0	0	0.0%	0	0.0%	0	360	-100.0%
SINGAPORE 180CST BALMO	BS	0	10	-100.0%	21	-100.0%	230	483	-52.4%
SINGAPORE 380CST BALMO	BT	116	93	24.7%	17	582.4%	932	2,294	-59.4%
SINGAPORE 380CST FUEL OIL	SE	2,134	7,770	-72.5%	1,683	26.8%	30,062	91,963	-67.3%

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Energy Futures									
SINGAPORE FUEL 180CST CAL	UA	103	426	-75.8%	63	63.5%	2,430	8,482	-71.4%
SINGAPORE FUEL OIL SPREAD	SD	49	175	-72.0%	44	11.4%	688	6,186	-88.9%
SINGAPORE GASOIL	MAF	2,372	747	217.5%	2,372	0.0%	22,556	2,053	998.7%
SINGAPORE GASOIL	MTB	65	48	35.4%	186	-65.1%	707	554	27.6%
SINGAPORE GASOIL	MTS	1,725	5,698	-69.7%	2,546	-32.2%	38,305	52,920	-27.6%
SINGAPORE GASOIL	STZ	0	0	0.0%	0	0.0%	0	4,300	-100.0%
SINGAPORE GASOIL CALENDAR	GDH	0	0	0.0%	0	0.0%	0	50	-100.0%
SINGAPORE GASOIL CALENDAR	GDH	0	0	0.0%	0	0.0%	0	250	-100.0%
SINGAPORE GASOIL CALENDAR	GHS	0	0	0.0%	0	0.0%	270	0	0.0%
SINGAPORE GASOIL CALENDAR	MGO	0	0	0.0%	0	0.0%	0	200	-100.0%
SINGAPORE GASOIL CALENDAR	MSG	313	130	140.8%	234	33.8%	2,082	4,882	-57.4%
SINGAPORE GASOIL CALENDAR	SGG	0	0	0.0%	0	0.0%	0	325	-100.0%
SINGAPORE GASOIL SWAP	SG	1,293	1,585	-18.4%	504	156.5%	10,539	47,259	-77.7%
SINGAPORE GASOIL VS ICE	GA	90	2,403	-96.3%	103	-12.6%	4,683	128,813	-96.4%
SINGAPORE JET KERO BALMO	BX	0	0	0.0%	50	-100.0%	50	215	-76.7%
SINGAPORE JET KERO GASOIL	RK	0	675	-100.0%	0	0.0%	100	34,820	-99.7%
SINGAPORE JET KEROSENE SW	KS	490	275	78.2%	1,015	-51.7%	6,495	13,275	-51.1%
SINGAPORE JET KERO VS. GASOIL BALMO	Z0	0	0	0.0%	0	0.0%	0	400	-100.0%
SINGAPORE MOGAS 92 UNLEADED BALMO	1P	0	50	-100.0%	0	0.0%	1,500	5,771	-74.0%
SINGAPORE MOGAS 92 UNLEADED SWP	1N	5,972	14,066	-57.5%	2,654	125.0%	94,294	151,954	-37.9%
SINGAPORE NAPHTHA SWAP	SP	0	0	0.0%	0	0.0%	0	200	-100.0%
SING FUEL	MSD	25	0	0.0%	5	400.0%	30	100	-70.0%
SOCAL PIPE SWAP	XN	0	0	0.0%	0	-	0	0	0.0%
SONAT BASIS SWAP FUTURE	SZ	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%	0	91	-100.0%
SUMAS NAT GAS PLATTS FIXED PRICE	DVS	0	0	0.0%	0	-	0	0	0.0%
TC2 ROTTERDAM TO USAC 37K	TM	25	195	-87.2%	190	-86.8%	2,456	1,052	133.5%
TC5 RAS TANURA TO YOKOHAM	TH	15	160	-90.6%	60	-75.0%	3,416	1,185	188.3%
TCO BASIS SWAP	TC	0	0	0.0%	0	0.0%	0	0	0.0%
TCO NG INDEX SWAP	Q1	0	0	0.0%	0	-	0	0	0.0%
TD3 MEG TO JAPAN 250K MT	TL	2,836	5,110	-44.5%	9,664	-70.7%	58,780	17,546	235.0%
TENNESSEE 500 LEG BASIS S	NM	0	0	0.0%	0	-	0	0	0.0%
TENNESSEE 800 LEG NG BASI	6Z	0	0	0.0%	0	-	0	0	0.0%
TENNESSEE ZONE 0 BASIS SW	NQ	0	0	0.0%	0	0.0%	0	0	0.0%
TETCO M-3 INDEX	IX	0	0	0.0%	0	-	0	0	0.0%

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Energy Futures									
Tetco STX Basis	TX	0	0	0.0%	0	0.0%	0	0	0.0%
TEXAS EASTERN ZONE M-3 BA	NX	0	0	0.0%	0	0.0%	0	0	0.0%
TEXAS GAS ZONE1 NG BASIS	9F	0	0	0.0%	0	0.0%	0	0	0.0%
Transco Zone 3 Basis	CZ	0	0	0.0%	0	0.0%	0	0	0.0%
TRANSCO ZONE 3 NG INDEX S	Y6	0	0	0.0%	0	-	0	0	0.0%
TRANSCO ZONE4 BASIS SWAP	TR	0	0	0.0%	0	0.0%	0	0	0.0%
TRANSCO ZONE 4 NAT GAS IN	B2	0	0	0.0%	0	-	0	0	0.0%
TRANSCO ZONE 6 BASIS SWAP	NZ	0	0	0.0%	0	0.0%	0	0	0.0%
TRANSCO ZONE 6 INDEX	IT	0	0	0.0%	0	-	0	0	0.0%
UCM FUT	UCM	0	0	0.0%	0	0.0%	20	60	-66.7%
UK NBP NAT GAS CAL MTH FUT	UKG	295	2,031	-85.5%	365	-19.2%	6,339	48,412	-86.9%
ULSD 10PPM CIF MED SWAP	Z6	0	0	0.0%	0	-	0	0	0.0%
ULSD 10PPM CIF MED VS ICE	Z7	0	0	0.0%	0	0.0%	0	14	-100.0%
ULSD 10PPM CIF NW BALMO S	B1	0	0	0.0%	0	-	0	0	0.0%
ULSD UP-DOWN BALMO SWP	1L	4,950	7,971	-37.9%	11,105	-55.4%	61,280	64,075	-4.4%
UP DOWN GC ULSD VS NMX HO	LT	39,211	35,075	11.8%	50,085	-21.7%	380,309	362,695	4.9%
WAHA BASIS	NW	0	0	0.0%	0	0.0%	650	3,201	-79.7%
WAHA INDEX SWAP FUTURE	IY	0	0	0.0%	0	-	0	0	0.0%
WESTERN RAIL DELIVERY PRB	QP	0	0	0.0%	0	0.0%	0	25	-100.0%
WTI-BRENT BULLET SWAP	BY	0	0	0.0%	504	-100.0%	1,953	6,650	-70.6%
WTI-BRENT CALENDAR SWAP	BK	34,765	18,361	89.3%	39,659	-12.3%	397,210	333,511	19.1%
WTI CALENDAR	CS	60,076	37,140	61.8%	43,833	37.1%	462,473	373,579	23.8%
WTS (ARGUS) VS WTI SWAP	FF	1,440	3,138	-54.1%	6,165	-76.6%	46,137	88,728	-48.0%
WTS (ARGUS) VS WTI TRD MT	FH	115	120	-4.2%	620	-81.5%	7,270	6,225	16.8%
Energy Options									
12 MO GASOIL CAL SWAP SPR	GXZ	0	0	0.0%	0	-	0	0	0.0%
BRENT 1 MONTH CAL	AA	0	0	0.0%	0	0.0%	0	3,000	-100.0%
BRENT CALENDAR SWAP	BA	900	286	214.7%	0	0.0%	4,710	13,462	-65.0%
BRENT CRUDE OIL 12 M CSO	9Y	0	0	0.0%	0	0.0%	0	2,000	-100.0%
BRENT CRUDE OIL 1 M CSO	9C	0	600	-100.0%	600	-100.0%	35,790	411,088	-91.3%
BRENT CRUDE OIL 6 M CSO	9L	0	0	0.0%	0	0.0%	0	1,000	-100.0%
BRENT OIL LAST DAY	BE	13,000	104,456	-87.6%	10,600	22.6%	355,576	404,176	-12.0%
BRENT OIL LAST DAY	BZO	78,154	181,086	-56.8%	78,796	-0.8%	1,035,602	1,868,717	-44.6%
BRENT OIL LAST DAY	OS	0	0	0.0%	0	0.0%	0	1,190	-100.0%

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Commodity		VOLUME NOV 2019	VOLUME NOV 2018	% CHG	VOLUME OCT 2019	% CHG	VOLUME Y.T.D 2019	VOLUME Y.T.D 2018	% CHG
Energy Options									
COAL API2 INDEX	CLA	0	165	-100.0%	10	-100.0%	225	6,590	-96.6%
COAL API2 INDEX	CQA	0	175	-100.0%	0	0.0%	835	3,655	-77.2%
COAL API2 INDEX	MTC	0	0	0.0%	0	-	0	0	0.0%
COAL API4 INDEX	RLA	0	0	0.0%	0	0.0%	0	25	-100.0%
COAL API4 INDEX	RQA	0	0	0.0%	0	0.0%	0	60	-100.0%
COAL SWAP	CPF	0	0	0.0%	0	0.0%	0	0	0.0%
COAL SWAP	RPF	0	0	0.0%	0	0.0%	0	0	0.0%
CRUDE OIL	6Y	0	0	-	0	0.0%	150	0	-
CRUDE OIL 1MO	WA	109,150	203,245	-46.3%	145,676	-25.1%	2,354,612	2,231,150	5.5%
CRUDE OIL APO	AO	105,348	53,102	98.4%	24,287	333.8%	540,376	486,898	11.0%
CRUDE OIL CALNDR STRIP	6F	0	0	0.0%	0	0.0%	200	170	17.6%
CRUDE OIL OUTRIGHTS	AH	0	0	0.0%	0	0.0%	0	8,000	-100.0%
CRUDE OIL OUTRIGHTS	DBP	0	0	0.0%	0	-	0	0	0.0%
CRUDE OIL OUTRIGHTS	WCI	0	0	0.0%	0	0.0%	960	390	146.2%
CRUDE OIL PHY	CD	0	0	0.0%	0	0.0%	1,300	20,850	-93.8%
CRUDE OIL PHY	LC	18,448	24,764	-25.5%	13,920	32.5%	124,164	128,975	-3.7%
CRUDE OIL PHY	LO	1,926,989	5,853,550	-67.1%	2,460,453	-21.7%	29,253,411	41,294,954	-29.2%
CRUDE OIL PHY	LO1	15,754	11,326	39.1%	21,271	-25.9%	172,316	169,588	1.6%
CRUDE OIL PHY	LO2	12,536	20,248	-38.1%	12,804	-2.1%	152,487	178,834	-14.7%
CRUDE OIL PHY	LO3	341	28,426	-98.8%	5,614	-93.9%	99,527	135,093	-26.3%
CRUDE OIL PHY	LO4	24,448	24,112	1.4%	13,700	78.5%	184,008	183,602	0.2%
CRUDE OIL PHY	LO5	20,801	21,930	-5.1%	844	2,364.6%	69,759	71,635	-2.6%
ELEC MISO PEAK	9T	0	0	0.0%	0	-	0	0	0.0%
ETHANOL	CE1	0	0	0.0%	0	0.0%	0	275	-100.0%
ETHANOL	CE3	0	0	0.0%	0	0.0%	0	150	-100.0%
ETHANOL SWAP	CVR	6,540	3,155	107.3%	9,635	-32.1%	116,501	66,358	75.6%
ETHANOL SWAP	GVR	0	375	-100.0%	0	0.0%	780	3,493	-77.7%
EUROPEAN JET KEROSENE NWE (PLATTS) A	30	0	0	0.0%	0	-	0	0	0.0%
FREIGHT MARKETS	TDT	0	0	-	0	0.0%	1,800	0	-
GASOLINE	GCE	0	0	0.0%	0	-	0	0	0.0%
HEATING OIL CRACK OPTIONS	CH	0	0	0.0%	0	-	0	0	0.0%
HEATING OIL CRK SPD AVG PRICE OPTIONS	3W	0	0	0.0%	0	-	0	0	0.0%
HEATING OIL PHY	LB	0	699	-100.0%	100	-100.0%	2,002	1,719	16.5%
HEATING OIL PHY	OH	22,081	54,471	-59.5%	24,590	-10.2%	304,531	349,478	-12.9%
HENRY HUB FINANCIAL LAST	E7	1,599	4,073	-60.7%	5,479	-70.8%	64,758	48,008	34.9%
HO 1 MONTH CLNDR OPTIONS	FA	400	2,500	-84.0%	0	0.0%	2,550	2,600	-1.9%

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Commodity		VOLUME NOV 2019	VOLUME NOV 2018	% CHG	VOLUME OCT 2019	% CHG	VOLUME Y.T.D 2019	VOLUME Y.T.D 2018	% CHG
Energy Options									
LLS CRUDE OIL	WJO	0	0	0.0%	0	0.0%	0	100	-100.0%
LLS CRUDE OIL	YVO	0	0	0.0%	0	0.0%	0	0	0.0%
MCCLOSKEY ARA ARG5 COAL	MTO	300	0	0.0%	50	500.0%	480	290	65.5%
MCCLOSKEY RCH BAY COAL	MFO	25	70	-64.3%	180	-86.1%	1,125	2,145	-47.6%
NATURAL GAS	G10	0	0	0.0%	0	-	0	0	0.0%
NATURAL GAS 1 M CSO FIN	G4	161,152	123,150	30.9%	136,901	17.7%	914,705	492,270	85.8%
NATURAL GAS 2 M CSO FIN	G2	14,825	30	49,316.7%	600	2,370.8%	21,050	1,430	1,372.0%
NATURAL GAS 3 M CSO FIN	G3	2,900	0	0.0%	900	222.2%	228,425	44,246	416.3%
NATURAL GAS 5 M CSO FIN	G5	1,350	0	0.0%	1,900	-28.9%	6,100	2,550	139.2%
NATURAL GAS 6 M CSO FIN	G6	42,650	12,100	252.5%	16,500	158.5%	106,675	96,500	10.5%
NATURAL GAS OPTION ON CALENDAR STRP	6J	3,220	6,660	-51.7%	3,820	-15.7%	29,040	34,302	-15.3%
NATURAL GAS PHY	KD	3,308	6,040	-45.2%	10,295	-67.9%	44,281	201,589	-78.0%
NATURAL GAS PHY	LN	2,011,641	2,968,079	-32.2%	2,025,354	-0.7%	17,466,677	21,128,048	-17.3%
NATURAL GAS PHY	ON	158,072	420,400	-62.4%	138,825	13.9%	1,401,145	2,234,963	-37.3%
NATURAL GAS WINTER STRIP	6I	0	0	0.0%	0	0.0%	1,500	2,700	-44.4%
N ROCKIES PIPE SWAP	ZR	0	1,540	-100.0%	182	-100.0%	4,352	3,556	22.4%
NY HARBOR HEAT OIL SWP	AT	270	6,009	-95.5%	7,334	-96.3%	26,591	32,102	-17.2%
NYISO ZONE G 5MW PEAK OPTIONS	9U	0	0	0.0%	0	0.0%	0	0	0.0%
NYMEX EUROPEAN GASOIL APO	F7	0	0	0.0%	0	-	0	0	0.0%
PANHANDLE PIPE SWAP	PU	0	0	0.0%	0	0.0%	0	0	0.0%
PETROCHEMICALS	4H	27	10	170.0%	16	68.8%	4,872	6,662	-26.9%
PETROCHEMICALS	4J	0	0	0.0%	0	0.0%	200	1,350	-85.2%
PETROCHEMICALS	4K	0	0	0.0%	0	0.0%	560	3,300	-83.0%
PETROCHEMICALS	CPR	0	0	0.0%	0	0.0%	40	0	0.0%
PETRO OUTRIGHT EURO	8H	0	0	0.0%	0	0.0%	0	0	0.0%
PETRO OUTRIGHT EURO	BCO	0	0	-	12	-100.0%	36	0	-
PETRO OUTRIGHT NA	DAP	120	360	-66.7%	0	0.0%	540	552	-2.2%
PJM WES HUB PEAK CAL MTH	6OA	150	80	87.5%	190	-21.1%	1,000	800	25.0%
PJM WES HUB PEAK CAL MTH	JOA	0	0	0.0%	0	0.0%	0	880	-100.0%
PJM WES HUB PEAK LMP 50MW	PMA	0	84	-100.0%	0	0.0%	836	7,488	-88.8%
RBOB 1MO CAL SPD OPTIONS	ZA	0	0	0.0%	0	0.0%	150	700	-78.6%
RBOB CALENDAR SWAP	RA	0	75	-100.0%	75	-100.0%	576	1,125	-48.8%
RBOB CRACK	RX	0	0	0.0%	0	0.0%	0	2	-100.0%
RBOB PHY	OB	7,460	14,676	-49.2%	5,986	24.6%	148,890	136,124	9.4%
RBOB PHY	RF	0	0	0.0%	0	0.0%	1,624	125	1,199.2%
ROTTERDAM 3.5%FUEL OIL CL	Q6	0	0	0.0%	0	0.0%	0	0	0.0%



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Commodity		VOLUME NOV 2019	VOLUME NOV 2018	% CHG	VOLUME OCT 2019	% CHG	VOLUME Y.T.D 2019	VOLUME Y.T.D 2018	% CHG
Energy Options									
SAN JUAN PIPE SWAP	PJ	0	0	0.0%	910	-100.0%	3,880	2,149	80.5%
SHORT TERM	C15	0	0	0.0%	0	0.0%	0	500	-100.0%
SHORT TERM	U11	50	0	0.0%	0	0.0%	750	1,236	-39.3%
SHORT TERM	U12	0	800	-100.0%	0	0.0%	1,480	1,900	-22.1%
SHORT TERM	U13	101	100	1.0%	0	0.0%	251	500	-49.8%
SHORT TERM	U14	0	0	0.0%	0	0.0%	150	863	-82.6%
SHORT TERM	U15	400	0	0.0%	0	0.0%	1,675	797	110.2%
SHORT TERM	U22	0	0	0.0%	0	0.0%	1	1,271	-99.9%
SHORT TERM	U23	0	0	0.0%	0	0.0%	117	898	-87.0%
SHORT TERM	U24	0	0	0.0%	0	0.0%	250	879	-71.6%
SHORT TERM	U25	0	0	0.0%	0	0.0%	0	152	-100.0%
SHORT TERM	U26	0	200	-100.0%	0	0.0%	100	600	-83.3%
SHORT TERM NATURAL GAS	U01	0	0	0.0%	125	-100.0%	650	550	18.2%
SHORT TERM NATURAL GAS	U02	500	0	0.0%	0	0.0%	675	2,798	-75.9%
SHORT TERM NATURAL GAS	U03	0	750	-100.0%	0	0.0%	704	2,279	-69.1%
SHORT TERM NATURAL GAS	U04	100	0	0.0%	300	-66.7%	1,000	1,975	-49.4%
SHORT TERM NATURAL GAS	U05	0	200	-100.0%	0	0.0%	250	1,630	-84.7%
SHORT TERM NATURAL GAS	U06	0	0	0.0%	0	0.0%	505	1,500	-66.3%
SHORT TERM NATURAL GAS	U07	104	250	-58.4%	0	0.0%	754	1,851	-59.3%
SHORT TERM NATURAL GAS	U08	0	0	0.0%	200	-100.0%	2,650	1,477	79.4%
SHORT TERM NATURAL GAS	U09	0	100	-100.0%	100	-100.0%	700	1,634	-57.2%
SHORT TERM NATURAL GAS	U10	0	0	0.0%	400	-100.0%	1,150	1,250	-8.0%
SHORT TERM NATURAL GAS	U16	0	0	0.0%	0	0.0%	250	700	-64.3%
SHORT TERM NATURAL GAS	U17	0	0	0.0%	300	-100.0%	450	2,296	-80.4%
SHORT TERM NATURAL GAS	U18	200	0	0.0%	0	0.0%	325	1,622	-80.0%
SHORT TERM NATURAL GAS	U19	100	0	0.0%	0	0.0%	200	348	-42.5%
SHORT TERM NATURAL GAS	U20	200	0	0.0%	0	0.0%	500	1,425	-64.9%
SHORT TERM NATURAL GAS	U21	0	0	0.0%	0	0.0%	50	363	-86.2%
SHORT TERM NATURAL GAS	U27	0	0	0.0%	0	0.0%	0	425	-100.0%
SHORT TERM NATURAL GAS	U28	0	0	0.0%	0	0.0%	425	100	325.0%
SHORT TERM NATURAL GAS	U29	50	50	0.0%	0	0.0%	150	510	-70.6%
SHORT TERM NATURAL GAS	U30	0	0	0.0%	0	0.0%	600	100	500.0%
SHORT TERM NATURAL GAS	U31	0	0	0.0%	200	-100.0%	1,400	27	5,085.2%
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%

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Commodity		VOLUME NOV 2019	VOLUME NOV 2018	% CHG	VOLUME OCT 2019	% CHG	VOLUME Y.T.D 2019	VOLUME Y.T.D 2018	% CHG
Energy Options									
WTI-BRENT BULLET SWAP	BV	32,200	31,435	2.4%	22,375	43.9%	565,505	838,730	-32.6%
WTI CRUDE OIL 1 M CSO FI	7A	29,600	144,140	-79.5%	84,250	-64.9%	566,520	867,040	-34.7%
Metals Futures									
COMEX GOLD	GC	8,927,418	6,351,240	40.6%	8,016,150	11.4%	81,114,542	76,169,581	6.5%
NYMEX HOT ROLLED STEEL	HR	10,396	11,986	-13.3%	14,616	-28.9%	164,663	112,364	46.5%
NYMEX PLATINUM	PL	399,670	372,849	7.2%	408,309	-2.1%	5,274,093	4,965,634	6.2%
PALLADIUM	PA	131,275	148,110	-11.4%	90,724	44.7%	1,183,652	1,358,824	-12.9%
URANIUM	UX	0	2,169	-100.0%	0	0.0%	10,601	6,448	64.4%
COMEX SILVER	SI	2,334,288	2,299,125	1.5%	1,810,516	28.9%	22,606,422	22,686,431	-0.4%
COMEX E-Mini GOLD	QO	22,811	9,527	139.4%	26,356	-13.5%	225,803	91,830	145.9%
COMEX E-Mini SILVER	QI	2,484	1,047	137.2%	3,663	-32.2%	47,531	12,554	278.6%
COMEX COPPER	HG	2,116,656	2,546,723	-16.9%	1,673,956	26.4%	22,343,142	31,303,966	-28.6%
COMEX MINY COPPER	QC	497	337	47.5%	544	-8.6%	7,129	4,933	44.5%
ALUMINUM	A38	0	0	0.0%	0	0.0%	22	72	-69.4%
ALUMINUM	AEP	7,452	3,847	93.7%	6,340	17.5%	29,335	18,577	57.9%
ALUMINUM	ALA	242	240	0.8%	360	-32.8%	1,162	5,755	-79.8%
ALUMINUM	ALI	2,963	0	0.0%	3,243	-8.6%	12,938	0	0.0%
ALUMINUM	AUP	11,831	8,126	45.6%	10,173	16.3%	74,443	95,488	-22.0%
ALUMINUM	CUP	0	0	0.0%	0	0.0%	0	205	-100.0%
ALUMINUM	EDP	4,576	1,605	185.1%	5,088	-10.1%	26,332	17,096	54.0%
ALUMINUM	MJP	240	540	-55.6%	690	-65.2%	10,510	12,375	-15.1%
COPPER	HGS	582	1,417	-58.9%	2,280	-74.5%	9,921	16,263	-39.0%
E-MICRO GOLD	MGC	692,043	161,742	327.9%	812,994	-14.9%	5,194,918	1,645,616	215.7%
FERROUS PRODUCTS	BUS	1,158	1,888	-38.7%	733	58.0%	12,097	18,975	-36.2%
GOLD	GPS	0	0	0.0%	0	-	0	0	0.0%
GOLD	SGC	4,417	0	-	9,584	-53.9%	14,001	0	-
GOLD	SGU	15,264	0	-	6,086	150.8%	21,350	0	-
Gold Kilo	GCK	0	0	0.0%	0	0.0%	0	136	-100.0%
IRON ORE 62 CHINA PLATTS FUTURES	PIO	0	0	0.0%	0	0.0%	0	0	0.0%
IRON ORE 62 CHINA TSI FUTURES	TIO	1,919	4,793	-60.0%	1,961	-2.1%	52,564	42,546	23.5%
LNDN ZINC	ZNC	0	2,931	-100.0%	0	0.0%	1,230	13,475	-90.9%
SILVER	SIL	54,536	12,447	338.1%	40,222	35.6%	326,664	89,789	263.8%



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Metals Options									
COMEX COPPER	HX	56,995	40,977	39.1%	55,619	2.5%	651,156	326,243	99.6%
COMEX GOLD	OG	950,720	888,967	6.9%	1,194,383	-20.4%	14,186,685	10,780,350	31.6%
COMEX SILVER	SO	160,698	169,002	-4.9%	170,632	-5.8%	2,048,360	1,732,450	18.2%
COPPER	H1E	185	115	60.9%	91	103.3%	644	162	297.5%
COPPER	H2E	140	12	1,066.7%	170	-17.6%	938	148	533.8%
COPPER	H3E	38	6	533.3%	358	-89.4%	1,022	113	804.4%
COPPER	H4E	51	2	2,450.0%	183	-72.1%	360	171	110.5%
COPPER	H5E	506	0	0.0%	0	0.0%	603	12	4,925.0%
GOLD	OG1	22,670	9,314	143.4%	65,308	-65.3%	452,737	122,540	269.5%
GOLD	OG2	41,244	10,790	282.2%	55,336	-25.5%	415,238	112,898	267.8%
GOLD	OG3	47,333	17,031	177.9%	33,603	40.9%	342,952	126,037	172.1%
GOLD	OG4	21,912	6,663	228.9%	20,976	4.5%	225,729	78,483	187.6%
GOLD	OG5	21,070	6,833	208.4%	0	0.0%	83,447	32,861	153.9%
HOT ROLLED COIL STEEL CALL OPTION	HRO	0	300	-100.0%	150	-100.0%	1,050	300	250.0%
HOT ROLLED COIL STEEL PUT OPTION	HRO	150	0	-	0	-	150	0	-
IRON ORE 62 CHINA TSI CALL OPTION	ICT	0	0	0.0%	30	-100.0%	6,830	200	3,315.0%
IRON ORE 62 CHINA TSI PUT OPTION	ICT	0	0	0.0%	0	0.0%	3,600	1,280	181.3%
NYMEX PLATINUM	PO	2,074	2,721	-23.8%	3,419	-39.3%	37,260	42,819	-13.0%
PALLADIUM	PAO	1,308	953	37.3%	1,608	-18.7%	13,678	28,688	-52.3%
SILVER	SO1	1,535	572	168.4%	3,517	-56.4%	21,764	5,550	292.1%
SILVER	SO2	3,105	914	239.7%	3,301	-5.9%	20,857	5,118	307.5%
SILVER	SO3	2,296	747	207.4%	2,729	-15.9%	18,060	6,771	166.7%
SILVER	SO4	727	742	-2.0%	795	-8.6%	7,087	3,919	80.8%
SILVER	SO5	1,386	654	111.9%	0	0.0%	5,419	2,746	97.3%
TOTAL FUTURES GROUP									
Ag Products Futures		2	1	100.0%	2	0.0%	58	84	-31.0%
Energy Futures		40,089,719	55,332,509	-27.5%	47,350,805	-15.3%	497,824,592	524,226,701	-5.0%
Metals Futures		14,742,718	11,942,689	23.4%	12,944,588	13.9%	138,765,065	138,688,933	0.1%
TOTAL FUTURES		54,832,439	67,275,199	-18.5%	60,295,395	-9.1%	636,589,715	662,915,718	-4.0%

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The open interest values are based on preliminary open interest values only.



NYMEX/COMEX Exchange Volume Report - Monthly

Commodity	VOLUME NOV 2019	VOLUME NOV 2018	% CHG	VOLUME OCT 2019	% CHG	VOLUME Y.T.D 2019	VOLUME Y.T.D 2018	% CHG
TOTAL OPTIONS GROUP								
Energy Options	4,827,564	10,330,132	-53.3%	5,286,659	-8.7%	56,444,467	74,275,457	-24.0%
Metals Options	1,336,143	1,157,315	15.5%	1,612,208	-17.1%	18,545,626	13,409,859	38.3%
TOTAL OPTIONS	6,163,707	11,487,447	-46.3%	6,898,867	-10.7%	74,990,093	87,685,316	-14.5%
TOTAL COMBINED								
Ag Products	2	1	100.0%	2	0.0%	58	84	-31.0%
Energy	44,917,283	65,662,641	-31.6%	52,637,464	-14.7%	554,269,059	598,502,158	-7.4%
Metals	16,078,861	13,100,004	22.7%	14,556,796	10.5%	157,310,691	152,098,792	3.4%
GRAND TOTAL	60,996,146	78,762,646	-22.6%	67,194,262	-9.2%	711,579,808	750,601,034	-5.2%