



## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2018	VOLUME DEC 2017	% CHG	VOLUME NOV 2018	% CHG	VOLUME Y.T.D 2018	VOLUME Y.T.D 2017	% CHG
<b>Ag Products Futures</b>									
COCOA TAS	CJ	0	5	-100.0%	0	0.0%	5	92	-94.6%
COFFEE	KT	0	0	0.0%	0	0.0%	0	41	-100.0%
COTTON	TT	1	1	0.0%	1	0.0%	22	20	10.0%
SUGAR 11	YO	0	0	0.0%	0	0.0%	58	42	38.1%
<b>Energy Futures</b>									
CRUDE OIL PHY	CL	22,908,693	20,204,705	13.4%	27,570,561	-16.9%	306,613,007	310,052,767	-1.1%
CRUDE OIL	WS	0	1,100	-100.0%	0	0.0%	15,639	75,600	-79.3%
MINY WTI CRUDE OIL	QM	617,691	167,645	268.5%	615,655	0.3%	4,692,563	3,001,906	56.3%
BRENT OIL LAST DAY	BZ	1,660,914	1,294,608	28.3%	2,270,269	-26.8%	21,825,780	21,839,889	-0.1%
HEATING OIL PHY	HO	3,238,999	3,504,415	-7.6%	4,516,781	-28.3%	46,277,883	43,596,206	6.2%
HTG OIL	BH	0	0	0.0%	24	-100.0%	120	340	-64.7%
MINY HTG OIL	QH	3	3	0.0%	4	-25.0%	47	35	34.3%
RBOB PHY	RB	3,404,701	3,368,473	1.1%	3,953,762	-13.9%	49,613,909	49,910,909	-0.6%
MINY RBOB GAS	QU	4	4	0.0%	6	-33.3%	47	51	-7.8%
NATURAL GAS	HP	93,506	152,228	-38.6%	217,970	-57.1%	1,438,019	1,669,023	-13.8%
LTD NAT GAS	HH	394,322	315,588	24.9%	636,172	-38.0%	4,579,077	3,539,546	29.4%
MINY NATURAL GAS	QG	45,578	40,345	13.0%	112,587	-59.5%	433,039	311,945	38.8%
PJM MONTHLY	JM	0	0	0.0%	0	0.0%	0	120	-100.0%
NATURAL GAS PHY	NG	7,851,274	10,500,608	-25.2%	14,219,346	-44.8%	114,256,078	108,391,797	5.4%
RBOB GAS	RT	0	1,910	-100.0%	0	0.0%	14,386	28,456	-49.4%
3.5% FUEL OIL CID MED SWA	7D	10	0	0.0%	0	0.0%	622	1,035	-39.9%
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	15,739	30,355	-48.2%	18,221	-13.6%	256,755	190,327	34.9%
ARGUS PROPAN FAR EST INDE	7E	3,071	3,877	-20.8%	5,595	-45.1%	68,590	32,339	112.1%

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<b>Energy Futures</b>									
ARGUS PROPAN(SAUDI ARAMCO	9N	1,778	1,394	27.5%	2,726	-34.8%	32,923	12,890	155.4%
AUSTRIALIAN COKE COAL	ACT	0	120	-100.0%	0	0.0%	20	240	-91.7%
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	1,588	4,247	-62.6%	2,125	-25.3%	39,825	34,990	13.8%
BRENT CFD SWAP	6W	0	0	-	0	0.0%	300	0	-
BRENT FINANCIAL FUTURES	BB	0	0	0.0%	1,000	-100.0%	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	96	-100.0%	0	0.0%	224	426	-47.4%
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	0	0.0%	0	0.0%	36	999	-96.4%
CENTERPOINT EAST INDEX	II	0	0	0.0%	0	-	0	0	0.0%
CEU ENERGY	DEB	962	0	-	1,377	-30.1%	5,441	0	-
CEU ENERGY	TTF	2,583	0	-	3,685	-29.9%	20,664	0	-
CEU ENERGY	UKG	970	0	-	2,031	-52.2%	49,382	0	-
CHICAGO ETHANOL SWAP	CU	79,017	95,604	-17.3%	87,007	-9.2%	1,133,415	1,342,798	-15.6%
CHICAGO ULSD (PLATTS) SWA	4C	0	0	0.0%	0	0.0%	0	0	0.0%
CHICAGO ULSD PL VS HO SPR	5C	831	570	45.8%	932	-10.8%	5,838	2,208	164.4%
CHICAGO UNL GAS PL VS RBO	3C	125	0	0.0%	0	0.0%	1,075	0	0.0%
CIG BASIS	CI	0	0	0.0%	0	0.0%	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	1,254	1,220	2.8%	538	133.1%	13,630	19,513	-30.1%
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	0	45	-100.0%	60	-100.0%	570	1,720	-66.9%
COAL SWAP	SSI	0	0	0.0%	0	0.0%	0	0	0.0%
COLUMB GULF MAINLINE NG B	5Z	214	0	0.0%	0	0.0%	214	999	-78.6%
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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CONWAY NATURAL GASOLINE (OPIS) SWAP	8L	177	34	420.6%	916	-80.7%	2,831	2,984	-5.1%
CONWAY NORMAL BUTANE (OPIS) SWAP	8M	0	259	-100.0%	70	-100.0%	2,831	8,299	-65.9%
CONWAY PROPANE 5 DECIMALS SWAP	8K	11,614	10,777	7.8%	13,728	-15.4%	186,616	109,794	70.0%
CRUDE OIL	CHB	0	0	0.0%	0	-	0	0	0.0%
CRUDE OIL	LPS	4,400	4,130	6.5%	3,600	22.2%	53,385	46,199	15.6%
CRUDE OIL OUTRIGHTS	37	0	0	0.0%	0	-	0	0	0.0%
CRUDE OIL OUTRIGHTS	42	759	632	20.1%	192	295.3%	3,436	6,419	-46.5%
CRUDE OIL OUTRIGHTS	CC5	225	90	150.0%	30	650.0%	555	690	-19.6%
CRUDE OIL OUTRIGHTS	CPD	0	700	-100.0%	0	0.0%	2,956	700	322.3%
CRUDE OIL OUTRIGHTS	CSN	0	0	0.0%	0	0.0%	0	30	-100.0%
CRUDE OIL OUTRIGHTS	CSW	45	85	-47.1%	30	50.0%	2,360	2,790	-15.4%
CRUDE OIL OUTRIGHTS	DBL	0	0	0.0%	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	0	0.0%	0	0.0%	105	200	-47.5%
CRUDE OIL OUTRIGHTS	HTT	25,623	35,143	-27.1%	38,047	-32.7%	555,118	245,508	126.1%
CRUDE OIL OUTRIGHTS	LSW	0	285	-100.0%	0	0.0%	335	4,410	-92.4%
CRUDE OIL OUTRIGHTS	SSW	0	0	0.0%	0	0.0%	0	960	-100.0%
CRUDE OIL OUTRIGHTS	UMD	0	600	-100.0%	0	0.0%	4,800	600	700.0%
CRUDE OIL OUTRIGHTS	UNS	0	1,878	-100.0%	0	0.0%	7,554	1,878	302.2%
CRUDE OIL OUTRIGHTS	WCC	0	70	-100.0%	0	0.0%	0	24,807	-100.0%
CRUDE OIL OUTRIGHTS	WCW	8,540	15,780	-45.9%	2,162	295.0%	73,558	88,576	-17.0%
CRUDE OIL PHY	CLL	0	0	0.0%	0	0.0%	0	0	0.0%
CRUDE OIL PHY	HCL	14,546	0	-	10,095	44.1%	24,641	0	-
CRUDE OIL SPRDS	38	0	0	0.0%	0	0.0%	2,055	0	0.0%
CRUDE OIL SPRDS	WTT	15,275	51,458	-70.3%	10,718	42.5%	430,553	192,022	124.2%
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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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	0	0.0%	0	0.0%	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	0	0.0%	0	0.0%	0	2,920	-100.0%
DOMINION TRANSMISSION INC	PG	0	0	0.0%	0	0.0%	126	53,117	-99.8%
DUBAI CRUDE OIL BALMO	BI	0	50	-100.0%	0	0.0%	125	50	150.0%
DUBAI CRUDE OIL CALENDAR	DC	11,775	1,910	516.5%	15,305	-23.1%	111,582	83,846	33.1%
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	4,870	-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	203	301	-32.6%	313	-35.1%	3,373	7,945	-57.5%
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	0	0	0.0%	55,380	-100.0%	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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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	76,320	-100.0%	0	0.0%	19,600	191,440	-89.8%
ERCOT NORTH ZMCPE 5MW PEAK	I5	0	0	0.0%	0	0.0%	5,050	6,810	-25.8%
ETHANOL	Z1B	5	0	-	0	-	5	0	-
ETHANOL SWAP	MT2	30	0	-	270	-88.9%	700	0	-
ETHANOL T2 FOB ROTT INCL DUTY SWAP	Z1	2,355	1,636	43.9%	6,461	-63.6%	40,167	45,681	-12.1%
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	58	171	-66.1%	235	-75.3%	5,732	5,048	13.5%
EURO 3.5% FUEL OIL SPREAD	FK	20	0	0.0%	0	0.0%	860	4,466	-80.7%
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	0	0.0%	0	0.0%	370	430	-14.0%
EUROPE 1% FUEL OIL NWE CA	UF	24	56	-57.1%	120	-80.0%	570	765	-25.5%
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	10	43	-76.7%	4	150.0%	1,001	1,744	-42.6%
EUROPE 3.5% FUEL OIL RDAM	UV	1,607	7,309	-78.0%	3,205	-49.9%	78,702	85,392	-7.8%
EUROPEAN GASOIL (ICE)	7F	176	601	-70.7%	1,254	-86.0%	7,105	31,421	-77.4%
EUROPEAN NAPHTHA BALMO	KZ	48	267	-82.0%	184	-73.9%	3,087	3,923	-21.3%
EUROPEAN NAPHTHA CRACK SPR	EN	3,399	5,416	-37.2%	8,523	-60.1%	106,790	80,745	32.3%
EUROPE DATED BRENT SWAP	UB	580	0	0.0%	2,520	-77.0%	5,300	2,540	108.7%
EUROPE JET KERO NWE CALSW	UJ	0	0	0.0%	0	0.0%	39	105	-62.9%
EUROPE NAPHTHA CALSWAP	UN	1,669	2,234	-25.3%	2,614	-36.2%	39,775	31,941	24.5%
EURO PROPANE CIF ARA SWA	PS	942	1,036	-9.1%	2,051	-54.1%	21,260	15,311	38.9%
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	348	175	98.9%	337	3.3%	2,533	1,797	41.0%
FREIGHT MARKETS	FRC	0	0	-	0	0.0%	600	0	-
FREIGHT MARKETS	FRS	0	50	-100.0%	0	0.0%	0	50	-100.0%
FREIGHT MARKETS	T2D	310	0	-	1,215	-74.5%	4,983	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	-	0	0.0%	150	0	-

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<b>Energy Futures</b>									
FUEL OIL CRACK VS ICE	FO	1,108	1,631	-32.1%	1,442	-23.2%	38,610	41,030	-5.9%
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	424	112	278.6%	15	2,726.7%	2,553	3,086	-17.3%
GAS EURO-BOB OXY NWE BARGES	7H	4,650	3,565	30.4%	5,318	-12.6%	86,232	72,390	19.1%
GAS EURO-BOB OXY NWE BARGES CRK	7K	8,075	14,611	-44.7%	12,780	-36.8%	206,227	223,046	-7.5%
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	60	-100.0%	0	0.0%	10	354	-97.2%
GASOIL 0.1 ROTTERDAM BARG	VL	10	15	-33.3%	26	-61.5%	1,506	170	785.9%
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	9	0	0.0%	0	0.0%	21	727	-97.1%
GASOIL BULLET SWAP	BG	0	330	-100.0%	0	0.0%	0	460	-100.0%
GASOIL CALENDAR SWAP	GX	0	0	0.0%	12	-100.0%	66	244	-73.0%
GASOIL CRACK SPREAD CALEN	GZ	1,188	2,394	-50.4%	604	96.7%	39,294	77,557	-49.3%
GASOIL MINI CALENDAR SWAP	QA	120	144	-16.7%	803	-85.1%	2,947	1,613	82.7%
GASOLINE UP-DOWN BALMO SW	1K	0	0	0.0%	0	-	0	0	0.0%
GROUP THREE ULSD (PLATTS)	A7	0	0	0.0%	45	-100.0%	250	125	100.0%
GROUP THREE UNLEAD GAS (P	A9	0	0	-	0	0.0%	425	0	-
GRP THREE ULSD(PLT)VS HEA	A6	3,268	5,390	-39.4%	3,826	-14.6%	42,527	53,220	-20.1%
GRP THREE UNL GS (PLT) VS	A8	2,495	1,505	65.8%	1,735	43.8%	25,837	13,644	89.4%
GULF COAST 3% FUEL OIL BA	VZ	446	4,255	-89.5%	703	-36.6%	14,048	16,992	-17.3%
GULF COAST GASOLINE CLNDR	GS	0	0	0.0%	0	-	0	0	0.0%
GULF COAST JET FUEL CLNDR	GE	204	282	-27.7%	207	-1.4%	1,606	1,270	26.5%
GULF COAST JET VS NYM 2 H	ME	16,525	25,008	-33.9%	22,758	-27.4%	403,914	480,097	-15.9%
GULF COAST NO.6 FUEL OIL	MF	30,639	59,264	-48.3%	30,573	0.2%	608,490	629,301	-3.3%
GULF COAST NO.6 FUEL OIL	MG	936	1,730	-45.9%	830	12.8%	18,242	19,411	-6.0%
GULF COAST ULSD CALENDAR	LY	377	379	-0.5%	254	48.4%	3,950	5,953	-33.6%
GULF COAST ULSD CRACK SPR	GY	0	0	0.0%	240	-100.0%	1,655	3,870	-57.2%
HEATING OIL BALMO CLNDR S	1G	0	227	-100.0%	0	0.0%	243	1,057	-77.0%

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Commodity		VOLUME DEC 2018	VOLUME DEC 2017	% CHG	VOLUME NOV 2018	% CHG	VOLUME Y.T.D 2018	VOLUME Y.T.D 2017	% CHG
<b>Energy Futures</b>									
HEATING OIL CRCK SPRD BAL	1H	0	0	0.0%	0	-	0	0	0.0%
HEATING OIL PHY	HOL	0	0	0.0%	0	0.0%	0	0	0.0%
HENRY HUB BASIS SWAP	HB	0	0	0.0%	0	0.0%	32,088	52,732	-39.1%
HENRY HUB FINANCIAL LAST	NBP	0	1,069	-100.0%	0	0.0%	26,818	5,326	403.5%
HENRY HUB FINANCIAL LAST	TTE	0	294	-100.0%	0	0.0%	885	1,181	-25.1%
HENRY HUB INDEX SWAP FUTU	IN	0	0	0.0%	0	0.0%	32,088	50,542	-36.5%
HENRY HUB SWAP	NN	106,596	225,231	-52.7%	167,365	-36.3%	1,955,712	2,275,687	-14.1%
HENRY HUB SWING FUTURE	SN	0	0	0.0%	0	-	0	0	0.0%
HOUSTON SHIP CHANNEL BASI	NH	0	0	0.0%	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	2,550	2,267	12.5%	3,890	-34.4%	106,858	119,797	-10.8%
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%	0	0.0%	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	40	0	-	205	-80.5%	1,760	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	0	755	-100.0%	161	-100.0%	1,890	7,398	-74.5%
JAPAN C&F NAPHTHA SWAP	JA	829	1,634	-49.3%	1,105	-25.0%	23,044	18,408	25.2%
JAPAN NAPHTHA BALMO SWAP	E6	9	8	12.5%	20	-55.0%	637	1,418	-55.1%
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	35	70	-50.0%	0	0.0%	677	1,318	-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	0	0.0%	0	0.0%	0	64	-100.0%
JET FUEL UP-DOWN BALMO CL	1M	5,705	4,445	28.3%	5,370	6.2%	71,272	80,836	-11.8%
LA CARB DIESEL (OPIS)	LX	0	0	0.0%	0	0.0%	0	0	0.0%
LA CARB DIESEL (OPIS) SWA	KL	192	100	92.0%	125	53.6%	3,287	2,220	48.1%

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Commodity		VOLUME DEC 2018	VOLUME DEC 2017	% CHG	VOLUME NOV 2018	% CHG	VOLUME Y.T.D 2018	VOLUME Y.T.D 2017	% CHG
<b>Energy Futures</b>									
LA CARBOB GASOLINE(OPIS)S	JL	160	450	-64.4%	410	-61.0%	5,670	3,225	75.8%
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	595	1,255	-52.6%	700	-15.0%	21,774	20,120	8.2%
LLS (ARGUS) CALENDAR SWAP	XA	0	0	-	0	0.0%	607	0	-
LLS (ARGUS) VS WTI SWAP	WJ	1,195	9,030	-86.8%	2,800	-57.3%	60,624	64,990	-6.7%
LOS ANGELES CARB GASOLINE	MH	0	0	-	10	-100.0%	10	0	-
MARS (ARGUS) VS WTI SWAP	YX	25	2,520	-99.0%	985	-97.5%	22,295	36,539	-39.0%
MARS (ARGUS) VS WTI TRD M	YV	13,300	25,290	-47.4%	12,665	5.0%	233,266	260,006	-10.3%
MARS BLEND CRUDE OIL	MB	0	3,209	-100.0%	0	0.0%	2,319	18,177	-87.2%
MCCLOSKEY ARA ARGS COAL	MTF	11,531	19,098	-39.6%	24,979	-53.8%	274,172	501,130	-45.3%
MCCLOSKEY RCH BAY COAL	MFF	975	2,564	-62.0%	2,100	-53.6%	33,286	55,540	-40.1%
MGF FUT	MGF	0	0	0.0%	10	-100.0%	268	316	-15.2%
MGN1 SWAP FUT	MGN	110	52	111.5%	120	-8.3%	923	1,126	-18.0%
MICHCON NG INDEX SWAP	Y8	0	0	0.0%	0	-	0	0	0.0%
MICHIGAN BASIS	NF	0	0	0.0%	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	104	668	-84.4%	362	-71.3%	3,902	5,378	-27.4%
MINI RBOB V. EBOBARG NWE BRGS BALMO	MXR	358	120	198.3%	0	0.0%	3,741	5,846	-36.0%
MINI RBOB V. EBOB(ARGUS) NWE BRGS	MXB	835	1,412	-40.9%	1,322	-36.8%	20,908	26,045	-19.7%
MJC FUT	MJC	0	235	-100.0%	50	-100.0%	1,460	1,540	-5.2%
MNC FUT	MNC	2,854	1,845	54.7%	5,026	-43.2%	48,644	45,730	6.4%
MONT BELVIEU ETHANE 5 DECIMAL	C0	17,112	14,734	16.1%	8,446	102.6%	189,923	256,776	-26.0%
MONT BELVIEU ETHANE OPIS BALMO	8C	210	335	-37.3%	80	162.5%	1,900	3,205	-40.7%
MONT BELVIEU LDH PROPANE 5 DECIMAL	B0	79,687	100,522	-20.7%	136,581	-41.7%	1,462,178	1,122,133	30.3%
MONT BELVIEU LDH PROPANE OPIS BALMO	8O	2,956	1,502	96.8%	1,871	58.0%	29,975	19,536	53.4%
MONT BELVIEU NATURAL GASOLINE 5 DEC	7Q	5,810	21,700	-73.2%	7,858	-26.1%	97,757	85,506	14.3%
MONT BELVIEU NATURAL GASOLINE BALMO	R0	565	323	74.9%	40	1,312.5%	4,191	3,667	14.3%
MONT BELVIEU NORMAL BUTANE 5 DECIMAL	D0	27,196	18,774	44.9%	32,903	-17.3%	427,121	346,469	23.3%
MONT BELVIEU NORMAL BUTANE BALMO	8J	916	696	31.6%	920	-0.4%	12,905	8,436	53.0%
NAT GAS BASIS SWAP	TZ6	0	0	0.0%	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%

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<b>Energy Futures</b>									
NATURAL GAS FIXED PRICE SWAP FUTURES	PFS	0	0	0.0%	0	-	0	0	0.0%
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	32,241	47,572	-32.2%	54,632	-41.0%	422,431	973,379	-56.6%
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%	136,440	235,140	-42.0%
NEPOOL INTR HUB 5MW D AH	U6	0	0	0.0%	0	0.0%	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	555	1,570	-64.6%	337	64.7%	12,583	10,820	16.3%
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	0	0.0%	1,300	-100.0%	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	2,400	0	0.0%	3,080	-22.1%	50,116	9,214	443.9%
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	150	100	50.0%	0	0.0%	3,133	3,759	-16.7%
NORTHERN NATURAL GAS DEMAR	PE	0	0	0.0%	0	0.0%	0	0	0.0%
NORTHERN NATURAL GAS VENTU	PF	0	0	0.0%	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%

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<b>Energy Futures</b>									
NY1% VS GC SPREAD SWAP	VR	1,465	2,380	-38.4%	510	187.3%	15,373	25,857	-40.5%
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	110	150	-26.7%	0	0.0%	1,905	3,410	-44.1%
NY HARBOR 1% FUEL OIL BAL	VK	0	0	0.0%	0	0.0%	50	25	100.0%
NY HARBOR HEAT OIL SWP	MP	1,677	1,255	33.6%	4,723	-64.5%	29,460	24,739	19.1%
NY HARBOR LOW SULPUR GAS 1000MBBL	NLS	0	0	0.0%	600	-100.0%	3,445	4,273	-19.4%
NY HARBOR RESIDUAL FUEL 1	MM	1,265	2,481	-49.0%	621	103.7%	12,678	28,543	-55.6%
NY HARBOR RESIDUAL FUEL C	ML	0	0	-	50	-100.0%	50	0	-
NYH NO 2 CRACK SPREAD CAL	HK	60	210	-71.4%	534	-88.8%	8,636	14,244	-39.4%
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	120	0	0.0%	0	0.0%	766	453	69.1%
NYISO CAPACITY	NNC	0	0	0.0%	60	-100.0%	795	2,306	-65.5%
NYISO CAPACITY	NRS	60	0	0.0%	0	0.0%	395	2,899	-86.4%
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%	0	0.0%	44,264	32,760	35.1%
NYISO ZONE A 5MW D AH PK	K3	0	420	-100.0%	0	0.0%	1,890	7,235	-73.9%
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	0	9,344	-100.0%	11,550	-100.0%	626,384	789,929	-20.7%
NYISO ZONE G 5MW D AH PK	T3	0	3,064	-100.0%	635	-100.0%	21,159	60,668	-65.1%
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	2,550	-100.0%	0	0.0%	0	29,340	-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	0	0.0%	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	5	-100.0%	0	0.0%	10	510	-98.0%
ONTARIO POWER SWAPS	OPM	0	0	0.0%	0	0.0%	0	650	-100.0%



## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2018	VOLUME DEC 2017	% CHG	VOLUME NOV 2018	% CHG	VOLUME Y.T.D 2018	VOLUME Y.T.D 2017	% CHG
<b>Energy Futures</b>									
PANHANDLE BASIS SWAP FUTU	PH	0	0	0.0%	0	0.0%	275	3,060	-91.0%
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	139	242	-42.6%	108	28.7%	2,117	1,165	81.7%
PETROCHEMICALS	32	111	80	38.8%	51	117.6%	1,745	1,281	36.2%
PETROCHEMICALS	3NA	40	0	-	5	700.0%	51	0	-
PETROCHEMICALS	51	0	0	-	0	0.0%	23	0	-
PETROCHEMICALS	8I	133	475	-72.0%	0	0.0%	6,893	7,021	-1.8%
PETROCHEMICALS	91	220	407	-45.9%	477	-53.9%	5,018	3,497	43.5%
PETROCHEMICALS	HPE	0	0	0.0%	0	0.0%	0	0	0.0%
PETROCHEMICALS	JKM	620	595	4.2%	3,335	-81.4%	16,299	1,320	1,134.8%
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	216	70	208.6%	522	-58.6%	2,780	570	387.7%
PETROCHEMICALS	MAS	170	30	466.7%	370	-54.1%	2,251	405	455.8%
PETROCHEMICALS	MBE	270	130	107.7%	360	-25.0%	9,160	12,370	-25.9%
PETROCHEMICALS	MNB	932	733	27.1%	1,272	-26.7%	20,582	19,968	3.1%
PETROCHEMICALS	MPS	109	80	36.3%	203	-46.3%	1,462	180	712.2%
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	390	0	0.0%	300	30.0%	790	264	199.2%
PETRO CRCKS & SPRDS ASIA	STS	0	792	-100.0%	30	-100.0%	539	2,480	-78.3%
PETRO CRCKS & SPRDS NA	CRB	6,055	350	1,630.0%	6,935	-12.7%	35,880	3,130	1,046.3%
PETRO CRCKS & SPRDS NA	EXR	1,773	1,808	-1.9%	1,897	-6.5%	32,982	28,899	14.1%
PETRO CRCKS & SPRDS NA	FOC	300	675	-55.6%	200	50.0%	7,275	7,878	-7.7%
PETRO CRCKS & SPRDS NA	GBB	2,035	650	213.1%	440	362.5%	14,760	13,553	8.9%
PETRO CRCKS & SPRDS NA	GCC	0	0	0.0%	0	0.0%	1,740	1,310	32.8%
PETRO CRCKS & SPRDS NA	GCI	347	730	-52.5%	539	-35.6%	14,947	11,328	31.9%
PETRO CRCKS & SPRDS NA	GCM	0	0	0.0%	0	0.0%	163	59	176.3%
PETRO CRCKS & SPRDS NA	GCU	8,077	7,572	6.7%	6,359	27.0%	130,251	73,204	77.9%
PETRO CRCKS & SPRDS NA	GFC	0	20	-100.0%	0	0.0%	40	555	-92.8%
PETRO CRCKS & SPRDS NA	HOB	84	2,097	-96.0%	453	-81.5%	9,206	35,033	-73.7%
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%

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Commodity		VOLUME DEC 2018	VOLUME DEC 2017	% CHG	VOLUME NOV 2018	% CHG	VOLUME Y.T.D 2018	VOLUME Y.T.D 2017	% CHG
<b>Energy Futures</b>									
PETRO CRCKS & SPRDS NA	NFG	0	0	0.0%	0	0.0%	50	109	-54.1%
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	325	2,039	-84.1%	3,315	-90.2%	57,935	86,718	-33.2%
PETRO CRCKS & SPRDS NA	RVG	13,142	7,809	68.3%	14,599	-10.0%	187,871	181,036	3.8%
PETRO CRCKS & SPRDS NA	SF3	25	0	0.0%	25	0.0%	371	15	2,373.3%
PETRO CRK&SPRD EURO	1NB	410	780	-47.4%	1,625	-74.8%	20,126	13,999	43.8%
PETRO CRK&SPRD EURO	1ND	0	100	-100.0%	0	0.0%	100	525	-81.0%
PETRO CRK&SPRD EURO	43	0	123	-100.0%	0	0.0%	3,414	3,619	-5.7%
PETRO CRK&SPRD EURO	BFR	0	0	0.0%	0	0.0%	0	0	0.0%
PETRO CRK&SPRD EURO	BOB	437	736	-40.6%	980	-55.4%	18,153	20,260	-10.4%
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%	0	0.0%	222	127	74.8%
PETRO CRK&SPRD EURO	EPN	255	709	-64.0%	693	-63.2%	10,741	6,468	66.1%
PETRO CRK&SPRD EURO	EVC	504	2,914	-82.7%	1,138	-55.7%	21,636	29,725	-27.2%
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	325	0	0.0%	0	0.0%	1,005	739	36.0%
PETRO CRK&SPRD EURO	GOC	0	0	0.0%	0	0.0%	84	120	-30.0%
PETRO CRK&SPRD EURO	MGB	0	0	0.0%	110	-100.0%	220	150	46.7%
PETRO CRK&SPRD EURO	MUD	0	12	-100.0%	10	-100.0%	173	910	-81.0%
PETRO CRK&SPRD EURO	NBB	0	5	-100.0%	0	0.0%	182	139	30.9%
PETRO CRK&SPRD EURO	NOB	684	947	-27.8%	2,271	-69.9%	21,394	12,897	65.9%
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	2,812	2,496	12.7%	4,382	-35.8%	58,413	32,545	79.5%
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	0	0	0.0%	30	-100.0%	60	50	20.0%
PETROLEUM PRODUCTS	MPE	0	18	-100.0%	0	0.0%	0	118	-100.0%
PETROLEUM PRODUCTS	VU	0	209	-100.0%	295	-100.0%	1,339	3,223	-58.5%
PETROLEUM PRODUCTS ASIA	E6M	0	0	0.0%	0	0.0%	714	242	195.0%
PETROLEUM PRODUCTS ASIA	MJN	1,400	1,438	-2.6%	2,265	-38.2%	22,700	20,833	9.0%

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<b>Energy Futures</b>									
PETROLEUM PRODUCTS ASIA	MSB	0	0	0.0%	0	0.0%	0	45	-100.0%
PETRO OUTRIGHT EURO	0B	20	0	0.0%	40	-50.0%	144	163	-11.7%
PETRO OUTRIGHT EURO	0C	0	0	0.0%	0	0.0%	23	70	-67.1%
PETRO OUTRIGHT EURO	0D	1,205	1,197	0.7%	1,491	-19.2%	15,797	26,473	-40.3%
PETRO OUTRIGHT EURO	0E	11	33	-66.7%	0	0.0%	249	4,137	-94.0%
PETRO OUTRIGHT EURO	0F	439	384	14.3%	444	-1.1%	6,014	11,717	-48.7%
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	22	0	0.0%	40	-45.0%	286	709	-59.7%
PETRO OUTRIGHT EURO	63	0	82	-100.0%	40	-100.0%	217	859	-74.7%
PETRO OUTRIGHT EURO	6L	0	0	0.0%	0	0.0%	0	7	-100.0%
PETRO OUTRIGHT EURO	7I	0	50	-100.0%	74	-100.0%	1,235	1,207	2.3%
PETRO OUTRIGHT EURO	7R	77	152	-49.3%	73	5.5%	3,083	2,657	16.0%
PETRO OUTRIGHT EURO	88	0	0	0.0%	20	-100.0%	125	75	66.7%
PETRO OUTRIGHT EURO	CBB	0	0	0.0%	25	-100.0%	80	52	53.8%
PETRO OUTRIGHT EURO	CGB	0	0	0.0%	0	0.0%	0	50	-100.0%
PETRO OUTRIGHT EURO	CPB	155	679	-77.2%	127	22.0%	3,608	3,532	2.2%
PETRO OUTRIGHT EURO	EFF	0	13	-100.0%	21	-100.0%	185	323	-42.7%
PETRO OUTRIGHT EURO	EFM	0	0	0.0%	0	0.0%	0	453	-100.0%
PETRO OUTRIGHT EURO	ENS	5	240	-97.9%	0	0.0%	150	420	-64.3%
PETRO OUTRIGHT EURO	ESB	0	0	0.0%	0	0.0%	0	69	-100.0%
PETRO OUTRIGHT EURO	EWN	599	788	-24.0%	719	-16.7%	8,461	8,279	2.2%
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	0	0	0.0%	50	-100.0%	321	550	-41.6%
PETRO OUTRIGHT EURO	MBN	1,044	600	74.0%	150	596.0%	10,161	11,686	-13.0%
PETRO OUTRIGHT EURO	MEF	312	0	-	361	-13.6%	1,812	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%	0	0.0%	808	1,836	-56.0%
PETRO OUTRIGHT NA	FOM	0	0	0.0%	0	0.0%	8	50	-84.0%



## NYMEX/COMEX Exchange Volume Report - Monthly

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<b>Energy Futures</b>									
PETRO OUTRIGHT NA	GBA	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT NA	GUD	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT NA	JE	0	0	0.0%	42	-100.0%	111	420	-73.6%
PETRO OUTRIGHT NA	JET	1,720	720	138.9%	1,965	-12.5%	35,110	44,806	-21.6%
PETRO OUTRIGHT NA	JTB	450	125	260.0%	900	-50.0%	8,000	3,938	103.1%
PETRO OUTRIGHT NA	MBL	0	0	0.0%	0	0.0%	40	266	-85.0%
PETRO OUTRIGHT NA	MEN	94	105	-10.5%	373	-74.8%	4,846	6,653	-27.2%
PETRO OUTRIGHT NA	MEO	1,405	3,123	-55.0%	2,497	-43.7%	39,908	94,727	-57.9%
PETRO OUTRIGHT NA	MFD	0	44	-100.0%	0	0.0%	100	247	-59.5%
PETRO OUTRIGHT NA	MMF	40	24	66.7%	27	48.1%	260	534	-51.3%
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	7,440	0	0.0%	23,360	-68.2%	72,197	288,349	-75.0%
PJM AD HUB 5MW REAL TIME	Z9	840	0	0.0%	1,285	-34.6%	15,198	22,831	-33.4%
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	840	0	0.0%	0	0.0%	7,220	79,300	-90.9%
PJM NI HUB 5MW REAL TIME	B6	0	0	0.0%	0	0.0%	5,925	1,719,650	-99.7%
PJM NILL DA OFF-PEAK	L3	0	0	0.0%	0	0.0%	770	689,738	-99.9%
PJM NILL DA PEAK	N3	0	0	0.0%	0	0.0%	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	0	0	0.0%	2,960	-100.0%	2,960	0	0.0%
PJM PPL DA OFF-PEAK	F5	0	0	0.0%	0	0.0%	0	0	0.0%

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<b>Energy Futures</b>									
PJM PPL DA PEAK	L5	0	0	0.0%	0	0.0%	0	0	0.0%
PJM PSEG DA OFF-PEAK	W6	0	0	0.0%	55,380	-100.0%	78,780	0	0.0%
PJM PSEG DA PEAK	L6	0	0	0.0%	2,960	-100.0%	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	20,040	23,360	-14.2%	23,360	-14.2%	392,520	2,208,775	-82.2%
PJM WESTH RT PEAK	L1	2,860	14,725	-80.6%	1,799	59.0%	63,850	223,316	-71.4%
PLASTICS	PGP	537	280	91.8%	709	-24.3%	5,560	6,264	-11.2%
PREMIUM UNLD 10P FOB MED	3G	320	50	540.0%	446	-28.3%	3,158	914	245.5%
PREMIUM UNLEAD 10PPM FOB	8G	0	0	0.0%	5	-100.0%	443	162	173.5%
PREM UNL GAS 10PPM RDAM FOB BALMO	7N	0	0	0.0%	3	-100.0%	83	7	1,085.7%
PREM UNL GAS 10PPM RDAM FOB SWAP	7L	40	0	0.0%	0	0.0%	366	37	889.2%
PROPANE NON-LDH MB (OPIS) BALMO SWP	1S	1,817	325	459.1%	7	25,857.1%	7,013	5,252	33.5%
PROPANE NON-LDH MT. BEL (OPIS) SWP	1R	11,666	8,530	36.8%	12,383	-5.8%	150,843	87,065	73.3%
RBOB CALENDAR SWAP	RL	3,201	3,881	-17.5%	3,612	-11.4%	65,352	83,819	-22.0%
RBOB CRACK SPREAD	RM	75	555	-86.5%	55	36.4%	9,658	11,362	-15.0%
RBOB CRACK SPREAD BALMO S	1E	0	0	0.0%	0	0.0%	0	0	0.0%
RBOB GASOLINE BALMO CLNDR	1D	509	1,880	-72.9%	396	28.5%	11,687	12,245	-4.6%
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	650	-100.0%	0	0.0%	1,975	17,720	-88.9%
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	16	90	-82.2%	10	60.0%	499	772	-35.4%
SINGAPORE 380CST BALMO	BT	160	165	-3.0%	93	72.0%	2,454	2,693	-8.9%
SINGAPORE 380CST FUEL OIL	SE	3,863	10,702	-63.9%	7,770	-50.3%	95,826	116,554	-17.8%
SINGAPORE FUEL 180CST CAL	UA	201	733	-72.6%	426	-52.8%	8,683	12,108	-28.3%
SINGAPORE FUEL OIL SPREAD	SD	75	95	-21.1%	175	-57.1%	6,261	7,038	-11.0%
SINGAPORE GASOIL	MAF	2,695	0	-	747	260.8%	4,748	0	-
SINGAPORE GASOIL	MTB	61	39	56.4%	48	27.1%	615	1,559	-60.6%
SINGAPORE GASOIL	MTS	2,935	4,997	-41.3%	5,698	-48.5%	55,855	57,540	-2.9%
SINGAPORE GASOIL	STL	0	0	0.0%	0	-	0	0	0.0%



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Commodity		VOLUME DEC 2018	VOLUME DEC 2017	% CHG	VOLUME NOV 2018	% CHG	VOLUME Y.T.D 2018	VOLUME Y.T.D 2017	% CHG
<b>Energy Futures</b>									
SINGAPORE GASOIL	STZ	0	323	-100.0%	0	0.0%	4,300	1,123	282.9%
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	9	60	-85.0%	0	0.0%	9	60	-85.0%
SINGAPORE GASOIL CALENDAR	MGO	21	130	-83.8%	0	0.0%	221	130	70.0%
SINGAPORE GASOIL CALENDAR	MSG	250	140	78.6%	130	92.3%	5,132	3,293	55.8%
SINGAPORE GASOIL CALENDAR	SGG	0	168	-100.0%	0	0.0%	325	168	93.5%
SINGAPORE GASOIL SWAP	SG	2,085	1,654	26.1%	1,585	31.5%	49,344	90,723	-45.6%
SINGAPORE GASOIL VS ICE	GA	1,325	618	114.4%	2,403	-44.9%	130,138	70,787	83.8%
SINGAPORE JET KERO BALMO	BX	0	0	0.0%	0	0.0%	215	536	-59.9%
SINGAPORE JET KERO GASOIL	RK	525	425	23.5%	675	-22.2%	35,345	18,735	88.7%
SINGAPORE JET KEROSENE SW	KS	175	0	0.0%	275	-36.4%	13,450	12,979	3.6%
SINGAPORE JET KERO VS. GASOIL BALMO	Z0	0	0	0.0%	0	0.0%	400	50	700.0%
SINGAPORE MOGAS 92 UNLEADED BALMO	1P	296	280	5.7%	50	492.0%	6,067	2,076	192.2%
SINGAPORE MOGAS 92 UNLEADED SWP	1N	10,126	3,760	169.3%	14,066	-28.0%	162,080	85,721	89.1%
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	0	0.0%	0	0.0%	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	0	140	-100.0%	195	-100.0%	1,052	220	378.2%
TC5 RAS TANURA TO YOKOHAM	TH	480	75	540.0%	160	200.0%	1,665	75	2,120.0%
TCO BASIS SWAP	TC	856	0	0.0%	0	0.0%	856	8,949	-90.4%
TCO NG INDEX SWAP	Q1	0	0	0.0%	0	0.0%	0	0	0.0%
TD3 MEG TO JAPAN 250K MT	TL	3,125	360	768.1%	5,110	-38.8%	20,671	390	5,200.3%
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	0	0.0%	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	0	0.0%	0	0.0%	0	9,512	-100.0%

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<b>Energy Futures</b>									
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	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	0	0.0%	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	20	0	0.0%	0	0.0%	80	295	-72.9%
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	0	0.0%	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	3,600	9,050	-60.2%	7,971	-54.8%	67,675	62,513	8.3%
UP DOWN GC ULSD VS NMX HO	LT	20,772	34,918	-40.5%	35,075	-40.8%	383,467	551,389	-30.5%
USGC UNL 87 CRACK SPREAD	RU	0	0	0.0%	0	-	0	0	0.0%
WAHA BASIS	NW	250	723	-65.4%	0	0.0%	3,451	6,787	-49.2%
WAHA INDEX SWAP FUTURE	IY	0	0	0.0%	0	0.0%	0	0	0.0%
WESTERN RAIL DELIVERY PRB	QP	0	0	0.0%	0	0.0%	25	2,520	-99.0%
WTI-BRENT BULLET SWAP	BY	0	250	-100.0%	0	0.0%	6,650	1,154	476.3%
WTI-BRENT CALENDAR SWAP	BK	13,439	42,010	-68.0%	18,361	-26.8%	346,950	251,432	38.0%
WTI CALENDAR	CS	25,795	42,145	-38.8%	37,140	-30.5%	399,374	448,037	-10.9%
WTS (ARGUS) VS WTI SWAP	FF	2,574	13,520	-81.0%	3,138	-18.0%	91,302	72,712	25.6%
WTS (ARGUS) VS WTI TRD MT	FH	120	0	0.0%	120	0.0%	6,345	9,936	-36.1%
<b>Energy Options</b>									
12 MO GASOIL CAL SWAP SPR	GXZ	0	0	0.0%	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	3,000	0	0.0%	286	949.0%	16,462	5,347	207.9%
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	12,000	0	-	600	1,900.0%	423,088	0	-
BRENT CRUDE OIL 6 M CSO	9L	0	0	-	0	0.0%	1,000	0	-
BRENT OIL LAST DAY	BE	64,882	1,000	6,388.2%	104,456	-37.9%	469,058	38,281	1,125.3%
BRENT OIL LAST DAY	BZO	98,552	74,481	32.3%	181,086	-45.6%	1,967,269	540,735	263.8%

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<b>Energy Options</b>									
BRENT OIL LAST DAY	OS	100	20	400.0%	0	0.0%	1,290	3,912	-67.0%
COAL API2 INDEX	CLA	50	25	100.0%	165	-69.7%	6,640	10,233	-35.1%
COAL API2 INDEX	CQA	0	50	-100.0%	175	-100.0%	3,655	825	343.0%
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	0	0.0%	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	179,500	104,118	72.4%	203,245	-11.7%	2,410,650	2,084,297	15.7%
CRUDE OIL APO	AO	47,949	94,893	-49.5%	53,102	-9.7%	534,847	640,113	-16.4%
CRUDE OIL CALNDR STRIP	6F	0	0	-	0	0.0%	170	0	-
CRUDE OIL OUTRIGHTS	AH	0	0	0.0%	0	0.0%	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%	0	0.0%	390	11,770	-96.7%
CRUDE OIL PHY	CD	500	175	185.7%	0	0.0%	21,350	31,435	-32.1%
CRUDE OIL PHY	LC	20,051	9,387	113.6%	24,764	-19.0%	149,026	258,029	-42.2%
CRUDE OIL PHY	LO	3,227,028	2,335,851	38.2%	5,853,550	-44.9%	44,521,982	42,901,045	3.8%
CRUDE OIL PHY	LO1	19,355	4,481	331.9%	11,326	70.9%	188,943	164,240	15.0%
CRUDE OIL PHY	LO2	738	8,342	-91.2%	20,248	-96.4%	179,572	158,374	13.4%
CRUDE OIL PHY	LO3	25,872	7,762	233.3%	28,426	-9.0%	160,965	103,804	55.1%
CRUDE OIL PHY	LO4	18,466	11,817	56.3%	24,112	-23.4%	202,068	191,368	5.6%
CRUDE OIL PHY	LO5	0	8,059	-100.0%	21,930	-100.0%	71,635	61,548	16.4%
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	3,712	6,026	-38.4%	3,155	17.7%	70,070	73,329	-4.4%
ETHANOL SWAP	GVR	405	510	-20.6%	375	8.0%	3,898	2,168	79.8%
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	1,048	85	1,132.9%	699	49.9%	2,767	2,813	-1.6%
HEATING OIL PHY	OH	37,381	38,253	-2.3%	54,471	-31.4%	386,859	395,078	-2.1%
HENRY HUB FINANCIAL LAST	E7	4,495	6,393	-29.7%	4,073	10.4%	52,503	47,791	9.9%



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<b>Energy Options</b>									
HO 1 MONTH CLNDR OPTIONS	FA	0	0	0.0%	2,500	-100.0%	2,600	1,700	52.9%
HUSTN SHIP CHNL PIPE SWP	PK	0	0	0.0%	0	-	0	0	0.0%
LLS CRUDE OIL	WJO	0	0	0.0%	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	0	0.0%	0	0.0%	290	1,600	-81.9%
MCCLOSKEY RCH BAY COAL	MFO	0	275	-100.0%	70	-100.0%	2,145	275	680.0%
NATURAL GAS	G10	0	0	0.0%	0	0.0%	0	450	-100.0%
NATURAL GAS 1 M CSO FIN	G4	78,539	56,022	40.2%	123,150	-36.2%	570,809	487,016	17.2%
NATURAL GAS 2 M CSO FIN	G2	0	3,400	-100.0%	30	-100.0%	1,430	14,950	-90.4%
NATURAL GAS 3 M CSO FIN	G3	0	13,400	-100.0%	0	0.0%	44,246	159,825	-72.3%
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	6,350	13,050	-51.3%	12,100	-47.5%	102,850	70,320	46.3%
NATURAL GAS OPTION ON CALENDAR STRP	6J	2,980	2,000	49.0%	6,660	-55.3%	37,282	14,670	154.1%
NATURAL GAS PHY	KD	1,045	61,673	-98.3%	6,040	-82.7%	202,634	517,490	-60.8%
NATURAL GAS PHY	LN	1,724,856	3,381,859	-49.0%	2,968,079	-41.9%	22,852,904	28,303,431	-19.3%
NATURAL GAS PHY	ON	148,156	362,293	-59.1%	420,400	-64.8%	2,383,119	2,586,748	-7.9%
NATURAL GAS PHY	ON1	0	0	0.0%	0	-	0	0	0.0%
NATURAL GAS WINTER STRIP	6I	0	0	-	0	0.0%	2,700	0	-
NG HH 3 MONTH CAL	IC	0	0	0.0%	0	-	0	0	0.0%
N ROCKIES PIPE SWAP	ZR	0	0	0.0%	1,540	-100.0%	3,556	4,030	-11.8%
NY HARBOR HEAT OIL SWP	AT	3,680	1,512	143.4%	6,009	-38.8%	35,782	36,891	-3.0%
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	0	195	-100.0%	10	-100.0%	6,662	8,572	-22.3%
PETROCHEMICALS	4J	0	150	-100.0%	0	0.0%	1,350	3,095	-56.4%
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	240	0	0.0%	360	-33.3%	792	72	1,000.0%
PJM MONTHLY	JO	0	0	0.0%	0	-	0	0	0.0%
PJM WES HUB PEAK CAL MTH	6OA	60	140	-57.1%	80	-25.0%	860	4,100	-79.0%
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	0	440	-100.0%	84	-100.0%	7,488	14,257	-47.5%
RBOB 1MO CAL SPD OPTIONS	ZA	0	50	-100.0%	0	0.0%	700	6,758	-89.6%

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<b>Energy Options</b>									
RBOB CALENDAR SWAP	RA	225	0	0.0%	75	200.0%	1,350	2,865	-52.9%
RBOB CRACK	RX	0	0	-	0	0.0%	2	0	-
RBOB PHY	OB	8,808	10,539	-16.4%	14,676	-40.0%	144,932	293,296	-50.6%
RBOB PHY	RF	0	0	0.0%	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%	0	0.0%	2,149	3,240	-33.7%
SHORT TERM	C15	0	0	-	0	0.0%	500	0	-
SHORT TERM	U11	0	1,605	-100.0%	0	0.0%	1,236	7,575	-83.7%
SHORT TERM	U12	0	136	-100.0%	800	-100.0%	1,900	4,740	-59.9%
SHORT TERM	U13	0	1,160	-100.0%	100	-100.0%	500	5,119	-90.2%
SHORT TERM	U14	0	350	-100.0%	0	0.0%	863	3,980	-78.3%
SHORT TERM	U15	0	190	-100.0%	0	0.0%	797	5,415	-85.3%
SHORT TERM	U22	0	545	-100.0%	0	0.0%	1,271	3,527	-64.0%
SHORT TERM	U23	0	0	0.0%	0	0.0%	898	1,672	-46.3%
SHORT TERM	U24	0	0	0.0%	0	0.0%	879	3,225	-72.7%
SHORT TERM	U25	0	0	0.0%	0	0.0%	152	940	-83.8%
SHORT TERM	U26	0	0	0.0%	200	-100.0%	600	292	105.5%
SHORT TERM NATURAL GAS	U01	0	0	0.0%	0	0.0%	550	3,716	-85.2%
SHORT TERM NATURAL GAS	U02	0	300	-100.0%	0	0.0%	2,798	4,258	-34.3%
SHORT TERM NATURAL GAS	U03	0	0	0.0%	750	-100.0%	2,279	2,273	0.3%
SHORT TERM NATURAL GAS	U04	0	1,443	-100.0%	0	0.0%	1,975	2,613	-24.4%
SHORT TERM NATURAL GAS	U05	0	1,068	-100.0%	200	-100.0%	1,630	11,208	-85.5%
SHORT TERM NATURAL GAS	U06	0	478	-100.0%	0	0.0%	1,500	9,148	-83.6%
SHORT TERM NATURAL GAS	U07	0	175	-100.0%	250	-100.0%	1,851	3,675	-49.6%
SHORT TERM NATURAL GAS	U08	0	405	-100.0%	0	0.0%	1,477	5,637	-73.8%
SHORT TERM NATURAL GAS	U09	0	0	0.0%	100	-100.0%	1,634	5,214	-68.7%
SHORT TERM NATURAL GAS	U10	0	0	0.0%	0	0.0%	1,250	6,029	-79.3%
SHORT TERM NATURAL GAS	U16	0	0	0.0%	0	0.0%	700	7,010	-90.0%
SHORT TERM NATURAL GAS	U17	0	0	0.0%	0	0.0%	2,296	5,147	-55.4%
SHORT TERM NATURAL GAS	U18	0	868	-100.0%	0	0.0%	1,622	2,565	-36.8%
SHORT TERM NATURAL GAS	U19	0	785	-100.0%	0	0.0%	348	5,345	-93.5%
SHORT TERM NATURAL GAS	U20	0	325	-100.0%	0	0.0%	1,425	4,330	-67.1%
SHORT TERM NATURAL GAS	U21	250	430	-41.9%	0	0.0%	613	3,642	-83.2%
SHORT TERM NATURAL GAS	U27	100	150	-33.3%	0	0.0%	525	2,020	-74.0%
SHORT TERM NATURAL GAS	U28	0	0	0.0%	0	0.0%	100	3,255	-96.9%
SHORT TERM NATURAL GAS	U29	0	150	-100.0%	50	-100.0%	510	906	-43.7%

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 DEC 2018	VOLUME DEC 2017	% CHG	VOLUME NOV 2018	% CHG	VOLUME Y.T.D 2018	VOLUME Y.T.D 2017	% CHG
<b>Energy Options</b>									
SHORT TERM NATURAL GAS	U30	0	0	0.0%	0	0.0%	100	4,745	-97.9%
SHORT TERM NATURAL GAS	U31	450	0	0.0%	0	0.0%	477	6,250	-92.4%
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	17,585	58,976	-70.2%	31,435	-44.1%	856,315	564,527	51.7%
WTI CRUDE OIL 1 M CSO FI	7A	26,900	70,430	-61.8%	144,140	-81.3%	893,940	771,245	15.9%
<b>Metals Futures</b>									
COMEX GOLD	GC	4,132,009	5,186,587	-20.3%	6,351,240	-34.9%	80,301,590	72,802,171	10.3%
NYMEX HOT ROLLED STEEL	HR	7,205	5,531	30.3%	11,986	-39.9%	119,569	63,229	89.1%
NYMEX PLATINUM	PL	498,165	569,535	-12.5%	372,849	33.6%	5,463,799	4,852,160	12.6%
PALLADIUM	PA	74,888	72,890	2.7%	148,110	-49.4%	1,433,712	1,402,740	2.2%
URANIUM	UX	714	941	-24.1%	2,169	-67.1%	7,162	6,393	12.0%
COMEX SILVER	SI	1,300,620	1,388,100	-6.3%	2,299,125	-43.4%	23,987,051	23,034,989	4.1%
COMEX E-Mini GOLD	QO	4,651	4,992	-6.8%	9,527	-51.2%	96,481	92,442	4.4%
COMEX E-Mini SILVER	QI	847	814	4.1%	1,047	-19.1%	13,401	9,704	38.1%
COMEX COPPER	HG	1,406,137	2,353,163	-40.2%	2,546,723	-44.8%	32,710,103	27,051,503	20.9%
COMEX MINY COPPER	QC	262	627	-58.2%	337	-22.3%	5,195	8,269	-37.2%
ALUMINUM	A38	40	0	0.0%	0	0.0%	112	30	273.3%
ALUMINUM	AEP	1,491	2,340	-36.3%	3,847	-61.2%	20,068	29,963	-33.0%
ALUMINUM	ALA	0	1,260	-100.0%	240	-100.0%	5,755	6,685	-13.9%
ALUMINUM	ALI	0	0	0.0%	0	0.0%	0	5,755	-100.0%
ALUMINUM	AUP	3,434	9,336	-63.2%	8,126	-57.7%	98,922	85,683	15.5%
ALUMINUM	CUP	0	329	-100.0%	0	0.0%	205	329	-37.7%
ALUMINUM	EDP	634	1,235	-48.7%	1,605	-60.5%	17,730	10,865	63.2%
ALUMINUM	MJP	780	1,836	-57.5%	540	44.4%	13,155	17,399	-24.4%
COPPER	HGS	1,031	3,945	-73.9%	1,417	-27.2%	17,294	8,988	92.4%
E-MICRO GOLD	MGC	155,462	83,042	87.2%	161,742	-3.9%	1,801,078	1,141,590	57.8%
FERROUS PRODUCTS	BUS	1,200	75	1,500.0%	1,888	-36.4%	20,175	1,465	1,277.1%
GOLD	GPS	0	0	0.0%	0	0.0%	0	1	-100.0%
Gold Kilo	GCK	0	104	-100.0%	0	0.0%	136	3,665	-96.3%
IRON ORE 62 CHINA PLATTS FUTURES	PIO	0	0	0.0%	0	0.0%	0	9,432	-100.0%
IRON ORE 62 CHINA TSI FUTURES	TIO	1,581	2,909	-45.7%	4,793	-67.0%	44,127	90,283	-51.1%



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Commodity		VOLUME DEC 2018	VOLUME DEC 2017	% CHG	VOLUME NOV 2018	% CHG	VOLUME Y.T.D 2018	VOLUME Y.T.D 2017	% CHG
<b>Metals Futures</b>									
LNDN ZINC	ZNC	582	16	3,537.5%	2,931	-80.1%	14,057	141	9,869.5%
METALS	LED	0	0	0.0%	0	-	0	0	0.0%
SILVER	SIL	10,730	4,848	121.3%	12,447	-13.8%	100,519	71,118	41.3%
<b>Metals Options</b>									
COMEX COPPER	HX	25,537	20,129	26.9%	40,977	-37.7%	351,780	107,490	227.3%
COMEX GOLD	OG	970,905	747,234	29.9%	888,967	9.2%	11,751,255	9,892,533	18.8%
COMEX SILVER	SO	114,737	111,985	2.5%	169,002	-32.1%	1,847,187	1,438,930	28.4%
COPPER	H1E	16	0	-	115	-86.1%	178	0	-
COPPER	H2E	6	0	-	12	-50.0%	154	0	-
COPPER	H3E	6	0	-	6	0.0%	119	0	-
COPPER	H4E	6	0	-	2	200.0%	177	0	-
COPPER	H5E	0	0	-	0	0.0%	12	0	-
GOLD	OG1	14,809	6,578	125.1%	9,314	59.0%	137,349	49,292	178.6%
GOLD	OG2	16,226	6,846	137.0%	10,790	50.4%	129,124	49,145	162.7%
GOLD	OG3	18,762	7,433	152.4%	17,031	10.2%	144,799	48,868	196.3%
GOLD	OG4	9,772	4,910	99.0%	6,663	46.7%	88,255	27,923	216.1%
GOLD	OG5	0	5,345	-100.0%	6,833	-100.0%	32,861	14,976	119.4%
HOT ROLLED COIL STEEL CALL OPTION	HRO	0	1,200	-100.0%	300	-100.0%	300	1,530	-80.4%
IRON ORE 62 CHINA TSI CALL OPTION	ICT	0	0	0.0%	0	0.0%	200	18,094	-98.9%
IRON ORE 62 CHINA TSI PUT OPTION	ICT	0	0	0.0%	0	0.0%	1,280	26,105	-95.1%
NYMEX PLATINUM	PO	2,553	6,305	-59.5%	2,721	-6.2%	45,372	36,869	23.1%
PALLADIUM	PAO	845	1,655	-48.9%	953	-11.3%	29,533	66,745	-55.8%
SILVER	SO1	239	5	4,680.0%	572	-58.2%	5,789	686	743.9%
SILVER	SO2	590	45	1,211.1%	914	-35.4%	5,708	262	2,078.6%
SILVER	SO3	1,718	22	7,709.1%	747	130.0%	8,489	629	1,249.6%
SILVER	SO4	567	18	3,050.0%	742	-23.6%	4,486	206	2,077.7%
SILVER	SO5	0	49	-100.0%	654	-100.0%	2,746	53	5,081.1%

## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity	VOLUME DEC 2018	VOLUME DEC 2017	% CHG	VOLUME NOV 2018	% CHG	VOLUME Y.T.D 2018	VOLUME Y.T.D 2017	% CHG
<b>TOTAL FUTURES GROUP</b>								
Ag Products Futures	1	6	-83.3%	1	0.0%	85	195	-56.4%
Energy Futures	41,017,589	40,830,917	0.5%	55,332,509	-25.9%	565,244,290	564,935,443	0.1%
Metals Futures	7,602,463	9,694,455	-21.6%	11,942,689	-36.3%	146,291,396	130,806,992	11.8%
<b>TOTAL FUTURES</b>	<b>48,620,053</b>	<b>50,525,378</b>	<b>-3.8%</b>	<b>67,275,199</b>	<b>-27.7%</b>	<b>711,535,771</b>	<b>695,742,630</b>	<b>2.3%</b>
<b>TOTAL OPTIONS GROUP</b>								
Energy Options	5,785,308	6,758,695	-14.4%	10,330,132	-44.0%	80,060,765	81,784,467	-2.1%
Metals Options	1,177,294	919,759	28.0%	1,157,315	1.7%	14,587,153	11,780,336	23.8%
<b>TOTAL OPTIONS</b>	<b>6,962,602</b>	<b>7,678,454</b>	<b>-9.3%</b>	<b>11,487,447</b>	<b>-39.4%</b>	<b>94,647,918</b>	<b>93,564,803</b>	<b>1.2%</b>
<b>TOTAL COMBINED</b>								
Ag Products	1	6	-83.3%	1	0.0%	85	195	-56.4%
Energy	46,802,897	47,589,612	-1.7%	65,662,641	-28.7%	645,305,055	646,719,910	-0.2%
Metals	8,779,757	10,614,214	-17.3%	13,100,004	-33.0%	160,878,549	142,587,328	12.8%
<b>GRAND TOTAL</b>	<b>55,582,655</b>	<b>58,203,832</b>	<b>-4.5%</b>	<b>78,762,646</b>	<b>-29.4%</b>	<b>806,183,689</b>	<b>789,307,433</b>	<b>2.1%</b>