

NYMEX/COMEX Exchange ADV Report - Monthly

December 2018

Page 1 of 21

Commodity		ADV DEC 2018	ADV DEC 2017	% CHG	ADV NOV 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
Metals Futures									
COMEX GOLD	GC	206,600	259,329.35	-20.3%	302,440	-31.7%	318,657	290,048.49	9.9%
NYMEX HOT ROLLED STEEL	HR	360	276.55	30.3%	570.76	-36.9%	474	251.91	88.4%
NYMEX PLATINUM	PL	24,908	28,476.75	-12.5%	17,754.71	40.3%	21,682	19,331.31	12.2%
PALLADIUM	PA	3,744	3,644.5	2.7%	7,052.86	-46.9%	5,689	5,588.61	1.8%
URANIUM	UX	36	47.05	-24.1%	103.29	-65.4%	28	25.47	11.6%
COMEX SILVER	SI	65,031	69,405	-6.3%	109,482.14	-40.6%	95,187	91,772.86	3.7%
COMEX E-Mini GOLD	QO	233	249.6	-6.8%	453.67	-48.7%	383	368.29	4.0%
COMEX E-Mini SILVER	QI	42	40.7	4.1%	49.86	-15.1%	53	38.66	37.5%
COMEX COPPER	HG	70,307	117,658.15	-40.2%	121,272.52	-42.0%	129,802	107,774.91	20.4%
COMEX MINY COPPER	QC	13	31.35	-58.2%	16.05	-18.4%	21	32.94	-37.4%
ALUMINUM	A38	2	0	-	0	-	0	0.12	271.9%
ALUMINUM	AEP	75	117	-36.3%	183.19	-59.3%	80	119.37	-33.3%
ALUMINUM	ALA	0	63	-100.0%	11.43	-100.0%	23	26.63	-14.3%
ALUMINUM	ALI	0	0	-	0	-	0	22.93	-100.0%
ALUMINUM	AUP	172	466.8	-63.2%	386.95	-55.6%	393	341.37	15.0%
ALUMINUM	CUP	0	16.45	-100.0%	0	-	1	1.31	-37.9%
ALUMINUM	EDP	32	61.75	-48.7%	76.43	-58.5%	70	43.29	62.5%
ALUMINUM	MJP	39	91.8	-57.5%	25.71	51.7%	52	69.32	-24.7%
COPPER	HGS	52	197.25	-73.9%	67.48	-23.6%	69	35.81	91.6%
E-MICRO GOLD	MGC	7,773	4,152.1	87.2%	7,702	0.9%	7,147	4,548.17	57.1%
FERROUS PRODUCTS	BUS	60	3.75	1500.0%	89.9	-33.3%	80	5.84	1271.7%
GOLD	GPS	0	0	-	0	-	0	0	-100.0%
Gold Kilo	GCK	0	5.2	-100.0%	0	-	1	14.6	-96.3%
IRON ORE 62 CHINA PLATTS FUTURES	PIO	0	0	-	0	-	0	37.58	-100.0%
IRON ORE 62 CHINA TSI FUTURES	TIO	79	145.45	-45.7%	228.24	-65.4%	175	359.69	-51.3%
LNDN ZINC	ZNC	29	0.8	3537.5%	139.57	-79.2%	56	0.56	9829.1%
SILVER	SIL	537	242.4	121.3%	592.71	-9.5%	399	283.34	40.8%
Metals Options									
COMEX COPPER	HX	1,277	1,006.45	26.9%	1,951.29	-34.6%	1,396	428.25	226.0%
COMEX GOLD	OG	48,545	37,361.7	29.9%	42,331.76	14.7%	46,632	39,412.48	18.3%
COMEX SILVER	SO	5,737	5,599.25	2.5%	8,047.71	-28.7%	7,330	5,732.79	27.9%
COPPER	H1E	1	0	-	5.48	-85.4%	1	0	-
COPPER	H2E	0	0	-	0.57	-47.5%	1	0	-

NYMEX/COMEX Exchange ADV Report - Monthly

December 2018

Page 2 of 21

Commodity		ADV DEC 2018	ADV DEC 2017	% CHG	ADV NOV 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
Metals Options									
COPPER	H3E	0	0	-	0.29	5.0%	0	0	-
COPPER	H4E	0	0	-	0.1	215.1%	1	0	-
COPPER	H5E	0	0	-	0	-	0	0	-
GOLD	OG1	740	328.9	125.1%	443.52	66.9%	545	196.38	177.5%
GOLD	OG2	811	342.3	137.0%	513.81	57.9%	512	195.8	161.7%
GOLD	OG3	938	371.65	152.4%	811	15.7%	575	194.69	195.1%
GOLD	OG4	489	245.5	99.0%	317.29	54.0%	350	111.25	214.8%
GOLD	OG5	0	267.25	-100.0%	325.38	-100.0%	130	59.67	118.6%
HOT ROLLED COIL STEEL CALL OPTION	HRO	0	60	-100.0%	14.29	-100.0%	1	6.1	-80.5%
IRON ORE 62 CHINA TSI CALL OPTION	ICT	0	0	-	0	-	1	72.09	-98.9%
IRON ORE 62 CHINA TSI PUT OPTION	ICT	0	0	-	0	-	5	104	-95.1%
NYMEX PLATINUM	PO	128	315.25	-59.5%	129.57	-1.5%	180	146.89	22.6%
PALLADIUM	PAO	42	82.75	-48.9%	45.38	-6.9%	117	265.92	-55.9%
SILVER	SO1	12	0.25	4680.0%	27.24	-56.1%	23	2.73	740.6%
SILVER	SO2	30	2.25	1211.1%	43.52	-32.2%	23	1.04	2070.0%
SILVER	SO3	86	1.1	7709.1%	35.57	141.5%	34	2.51	1244.2%
SILVER	SO4	28	0.9	3050.0%	35.33	-19.8%	18	0.82	2069.1%
SILVER	SO5	0	2.45	-100.0%	31.14	-100.0%	11	0.21	5059.5%

Energy Futures

CRUDE OIL PHY	CL	1,145,435	1,010,235.25	13.4%	1,312,883.86	-12.8%	1,216,718	1,235,269.99	-1.5%
CRUDE OIL	WS	0	55	-100.0%	0	-	62	301.2	-79.4%
MINY WTI CRUDE OIL	QM	30,885	8,382.25	268.5%	29,316.9	5.3%	18,621	11,959.78	55.7%
BRENT OIL LAST DAY	BZ	83,046	64,730.4	28.3%	108,108.05	-23.2%	86,610	87,011.51	-0.5%
HEATING OIL PHY	HO	161,950	175,220.75	-7.6%	215,084.81	-24.7%	183,642	173,690.06	5.7%
HTG OIL	BH	0	0	-	1.14	-100.0%	0	1.35	-64.8%
MINY HTG OIL	QH	0	0.15	0.0%	0.19	-21.3%	0	0.14	33.8%
RBOB PHY	RB	170,235	168,423.65	1.1%	188,274.38	-9.6%	196,881	198,848.24	-1.0%
MINY RBOB GAS	QU	0	0.2	0.0%	0.29	-30.0%	0	0.2	-8.2%
NATURAL GAS	HP	4,675	7,611.4	-38.6%	10,379.52	-55.0%	5,706	6,649.49	-14.2%
LTD NAT GAS	HH	19,716	15,779.4	24.9%	30,293.9	-34.9%	18,171	14,101.78	28.9%
MINY NATURAL GAS	QG	2,279	2,017.25	13.0%	5,361.29	-57.5%	1,718	1,242.81	38.3%
PJM MONTHLY	JM	0	0	-	0	-	0	0.48	-100.0%

NYMEX/COMEX Exchange ADV Report - Monthly

December 2018

Page 3 of 21

Commodity		ADV DEC 2018	ADV DEC 2017	% CHG	ADV NOV 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
Energy Futures									
NATURAL GAS PHY	NG	392,564	525,030.4	-25.2%	677,111.71	-42.0%	453,397	431,839.83	5.0%
RBOB GAS	RT	0	95.5	-100.0%	0	-	57	113.37	-49.6%
3.5% FUEL OIL CID MED SWA	7D	1	0	-	0	-	2	4.12	-40.1%
3.5% FUEL OIL CIF BALMO S	8D	0	0	-	0	-	0	0.7	-45.9%
AEP-DAYTON HUB DAILY	VD	0	0	-	0	-	0	0	-
AEP-DAYTON HUB MTHLY	VM	0	0	-	0	-	0	0	-
AEP-DAYTON HUB OFF-PEAK M	VP	0	0	-	0	-	0	0	-
ALGON CITY GATES NAT GAS	N7	0	0	-	0	-	0	0	-
ALGONQUIN CITYGATES BASIS	B4	0	0	-	0	-	0	0	-
ANR LOUISIANA BASIS SWAP	ND	0	0	-	0	-	0	0	-
ANR OKLAHOMA	NE	0	0	-	0	-	0	0	-
ARGUS LLS VS. WTI (ARG) T	E5	787	1,517.75	-48.2%	867.67	-9.3%	1,019	758.27	34.4%
ARGUS PROPAN FAR EST INDE	7E	154	193.85	-20.8%	266.43	-42.4%	272	128.84	111.3%
ARGUS PROPAN(SAUDI ARAMCO	9N	89	69.7	27.5%	129.81	-31.5%	131	51.35	154.4%
AUSTRIALIAN COKE COAL	ACT	0	6	-100.0%	0	-	0	0.96	-91.7%
AUSTRIALIAN COKE COAL	ALW	0	0	-	0	-	0	4	-100.0%
BRENT BALMO SWAP	J9	0	0	-	0	-	1	2.3	-50.9%
BRENT CALENDAR SWAP	CY	79	212.35	-62.6%	101.19	-21.5%	158	139.4	13.4%
BRENT CFD SWAP	6W	0	0	-	0	-	1	0	-
BRENT FINANCIAL FUTURES	BB	0	0	-	47.62	-100.0%	83	171.49	-51.7%
BRENT FINANCIAL FUTURES	MBC	0	0	-	0	-	1	0	-
BRENT FINANCIAL FUTURES	MDB	0	4.8	-100.0%	0	-	1	1.7	-47.6%
BRENT OIL LAST DAY	BZL	0	0	-	0	-	0	0	-
BRENT OIL LAST DAY	BZS	0	0	-	0	-	0	0	-
CAISO SP15 EZGNHUB5 MW P	9X	0	0	-	0	-	0	31.63	-100.0%
CAISO SP15 EZGNHUB5 PEAK	9Z	0	0	-	0	-	0	0	-
CANADIAN LIGHT SWEET OIL	CIL	0	0	-	0	-	0	29.26	-100.0%
CENTERPOINT BASIS SWAP	PW	0	0	-	0	-	0	3.98	-96.4%
CEU ENERGY	DEB	48	0	-	65.57	-26.6%	22	0	-
CEU ENERGY	TTF	129	0	-	175.48	-26.4%	82	0	-
CEU ENERGY	UKG	49	0	-	96.71	-49.9%	196	0	-
CHICAGO ETHANOL SWAP	CU	3,951	4,780.2	-17.3%	4,143.19	-4.6%	4,498	5,349.79	-15.9%
CHICAGO ULSD (PLATTS) SWA	4C	0	0	-	0	-	0	0	-
CHICAGO ULSD PL VS HO SPR	5C	42	28.5	45.8%	44.38	-6.4%	23	8.8	163.4%
CHICAGO UNL GAS PL VS RBO	3C	6	0	-	0	-	4	0	-
CIG BASIS	CI	0	0	-	0	-	1	5.8	-84.9%

NYMEX/COMEX Exchange ADV Report - Monthly

December 2018

Page 4 of 21

Commodity		ADV DEC 2018	ADV DEC 2017	% CHG	ADV NOV 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
Energy Futures									
CIG ROCKIES NG INDEX SWA	Z8	0	0	-	0	-	0	2.87	-100.0%
CINERGY HUB OFF-PEAK MONT	EJ	0	0	-	0	-	0	0	-
CINERGY HUB PEAK MONTH	EM	0	0	-	0	-	0	0	-
CIN HUB 5MW D AH O PK	K2	0	0	-	0	-	0	1,299.12	-100.0%
CIN HUB 5MW D AH PK	H5	63	61	2.8%	25.62	144.7%	54	77.74	-30.4%
CIN HUB 5MW REAL TIME O P	H4	0	0	-	0	-	0	1,581.67	-100.0%
CIN HUB 5MW REAL TIME PK	H3	0	0	-	0	-	6	102.09	-94.2%
COAL SWAP	ACM	0	2.25	-100.0%	2.86	-100.0%	2	6.85	-67.0%
COAL SWAP	SSI	0	0	-	0	-	0	0	-
COLUMB GULF MAINLINE NG B	5Z	11	0	-	0	-	1	3.98	-78.7%
COLUMBIA GULF ONSHORE	GL	0	0	-	0	-	0	5.31	-100.0%
CONWAY NATURAL GASOLINE (OPIS) SWA	8L	9	1.7	420.6%	43.62	-79.7%	11	11.89	-5.5%
CONWAY NORMAL BUTANE (OPIS) SWAP	8M	0	12.95	-100.0%	3.33	-100.0%	11	33.06	-66.0%
CONWAY PROPANE 5 DECIMALS SWAP	8K	581	538.85	7.8%	653.71	-11.2%	741	437.43	69.3%
CRUDE OIL	LPS	220	206.5	6.5%	171.43	28.3%	212	184.06	15.1%
CRUDE OIL OUTRIGHTS	42	38	31.6	20.1%	9.14	315.1%	14	25.57	-46.7%
CRUDE OIL OUTRIGHTS	CC5	11	4.5	150.0%	1.43	687.5%	2	2.75	-19.9%
CRUDE OIL OUTRIGHTS	CPD	0	35	-100.0%	0	-	12	2.79	320.6%
CRUDE OIL OUTRIGHTS	CSN	0	0	-	0	-	0	0.12	-100.0%
CRUDE OIL OUTRIGHTS	CSW	2	4.25	-47.1%	1.43	57.5%	9	11.12	-15.7%
CRUDE OIL OUTRIGHTS	DBL	0	0	-	0	-	0	8.11	-95.2%
CRUDE OIL OUTRIGHTS	FE	0	0	-	0	-	0	1.31	-100.0%
CRUDE OIL OUTRIGHTS	GSW	0	0	-	0	-	0	0.8	-47.7%
CRUDE OIL OUTRIGHTS	HTT	1,281	1,757.15	-27.1%	1,811.76	-29.3%	2,203	978.12	125.2%
CRUDE OIL OUTRIGHTS	LSW	0	14.25	-100.0%	0	-	1	17.57	-92.4%
CRUDE OIL OUTRIGHTS	SSW	0	0	-	0	-	0	3.82	-100.0%
CRUDE OIL OUTRIGHTS	UMD	0	30	-100.0%	0	-	19	2.39	696.8%
CRUDE OIL OUTRIGHTS	UNS	0	93.9	-100.0%	0	-	30	7.48	300.6%
CRUDE OIL OUTRIGHTS	WCC	0	3.5	-100.0%	0	-	0	98.83	-100.0%
CRUDE OIL OUTRIGHTS	WCW	427	789	-45.9%	102.95	314.8%	292	352.89	-17.3%
CRUDE OIL PHY	CLL	0	0	-	0	-	0	0	-
CRUDE OIL PHY	HCL	727	0	-	480.71	51.3%	98	0	-
CRUDE OIL SPRDS	38	0	0	-	0	-	8	0	-
CRUDE OIL SPRDS	WTT	764	2,572.9	-70.3%	510.38	49.6%	1,709	765.03	123.3%
CRUDE OIL TRADE AT MARKER SINGAPOR	CLS	0	0	-	0	-	0	0	-
DAILY PJM	AOR	0	0	-	0	-	0	0	-

NYMEX/COMEX Exchange ADV Report - Monthly

December 2018

Page 5 of 21

Commodity		ADV DEC 2018	ADV DEC 2017	% CHG	ADV NOV 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
Energy Futures									
DAILY PJM	IDO	0	0	-	0	-	0	0	-
DAILY PJM	NOC	0	0	-	0	-	0	0	-
DAILY PJM	PAP	0	0	-	0	-	0	0	-
DAILY PJM	PEO	0	0	-	0	-	0	0	-
DAILY PJM	PNO	0	0	-	0	-	0	0	-
DAILY PJM	PNP	0	0	-	0	-	0	0	-
DAILY PJM	PWO	0	0	-	0	-	0	0	-
DAILY PJM	PWP	0	0	-	0	-	0	0	-
DAILY PJM	WOR	0	0	-	0	-	0	0	-
DAILY PJM	ZAO	0	0	-	0	-	0	0	-
DAILY PJM	ZGO	0	0	-	0	-	0	0	-
DAILY PJM	ZJO	0	0	-	0	-	0	0	-
DATED BRENT (PLATTS) DAILY SWAP	7G	0	0	-	0	-	0	5.58	-100.0%
DATED TO FRONTLINE BRENT	FY	0	0	-	0	-	13	57.57	-76.8%
DIESEL 10P BRG FOB RDM VS	7X	0	0	-	0	-	0	0	-
DIESEL 10PPM BARGES FOB B	U7	0	0	-	0	-	0	0.01	-100.0%
DOMINION TRAN INC - APP I	IH	0	0	-	0	-	0	11.63	-100.0%
DOMINION TRANSMISSION INC	PG	0	0	-	0	-	1	211.62	-99.8%
DUBAI CRUDE OIL BALMO	BI	0	2.5	-100.0%	0	-	0	0.2	149.0%
DUBAI CRUDE OIL CALENDAR	DC	589	95.5	516.5%	728.81	-19.2%	443	334.05	32.6%
DY EURO 3.5% FUEL OI RDA	FOR	0	0	-	0	-	0	5.98	-100.0%
EASTERN RAIL DELIVERY CSX	QX	0	0.75	-100.0%	0	-	1	19.4	-95.0%
EAST/WEST FUEL OIL SPREAD	EW	0	0	-	0	-	1	5	-85.2%
EIA FLAT TAX ONHWAY DIESE	A5	10	15.05	-32.6%	14.9	-31.9%	13	31.65	-57.7%
ELEC ERCOT DLY OFF PK	I4	0	0	-	0	-	0	0	-
ELEC ERCOT DLY PEAK	I3	0	0	-	0	-	0	0	-
ELEC ERCOT DLY PEAK	I7	0	0	-	0	-	0	0	-
ELEC ERCOT OFF PEAK	I2	0	0	-	0	-	78	0	-
ELEC FINSETTLED	47	0	0	-	0	-	0	0	-
ELEC FINSETTLED	49	0	0	-	0	-	0	0	-
ELEC MISO PEAK	4L	0	0	-	0	-	0	15.24	-100.0%
ELEC MISO PEAK	55	0	0	-	0	-	0	0	-
ELEC NYISO OFF-PEAK	4M	0	0	-	0	-	0	279.68	-100.0%
ELEC NYISO OFF-PEAK	58	0	0	-	0	-	0	0	-
ELECTRICITY ERCOT PEAK	ERE	0	0	-	0	-	0	2.75	-100.0%
ELECTRICITY OFF PEAK	46	0	0	-	0	-	0	0	-

NYMEX/COMEX Exchange ADV Report - Monthly

December 2018

Page 6 of 21

Commodity		ADV DEC 2018	ADV DEC 2017	% CHG	ADV NOV 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
Energy Futures									
ELECTRICITY OFF PEAK	4P	0	0	-	2,637.14	-100.0%	220	0	-
ELECTRICITY OFF PEAK	50	0	0	-	0	-	0	0	-
ELEC WEST POWER OFF-PEAK	MDA	0	0	-	0	-	0	0	-
ELEC WEST POWER PEAK	MDC	0	0	-	0	-	0	6.14	-100.0%
ERCOT DAILY 5MW PEAK	ERW	0	0	-	0	-	0	0	-
ERCOT HOUSTON Z MCPE 5MW PEAK SWA	I1	0	0	-	0	-	8	15.46	-49.9%
ERCOT NORTH ZMCPE 5MW OFFPEAK	I8	0	0	-	0	-	0	0	-
ERCOT NORTH ZMCPE 5MW OFFPEAK SWA	I6	0	3,816	-100.0%	0	-	78	762.71	-89.8%
ERCOT NORTH ZMCPE 5MW PEAK	I5	0	0	-	0	-	20	27.13	-26.1%
ETHANOL	Z1B	0	0	-	0	-	0	0	-
ETHANOL SWAP	MT2	2	0	-	12.86	-88.3%	3	0	-
ETHANOL T2 FOB ROTT INCL DUTY SWAP	Z1	118	81.8	43.9%	307.67	-61.7%	159	182	-12.4%
EURO 1% FUEL OIL NEW BALM	KX	0	0	-	0	-	0	0.07	82.7%
EURO 3.5% FUEL OIL RDAM B	KR	3	8.55	-66.1%	11.19	-74.1%	23	20.11	13.1%
EURO 3.5% FUEL OIL SPREAD	FK	1	0	-	0	-	3	17.79	-80.8%
EURO-DENOMINATED PETRO PROD	NCP	0	0	-	0	-	3	6.03	-57.9%
EURO GASOIL 10PPM VS ICE	ET	0	0	-	0	-	1	1.71	-14.3%
EUROPE 1% FUEL OIL NWE CA	UF	1	2.8	-57.1%	5.71	-79.0%	2	3.05	-25.8%
EUROPE 1% FUEL OIL RDAM C	UH	0	0	-	0	-	0	0.16	-92.3%
EUROPE 3.5% FUEL OIL MED	UI	1	2.15	-76.7%	0.19	162.5%	4	6.95	-42.8%
EUROPE 3.5% FUEL OIL RDAM	UV	80	365.45	-78.0%	152.62	-47.4%	312	340.21	-8.2%
EUROPEAN GASOIL (ICE)	7F	9	30.05	-70.7%	59.71	-85.3%	28	125.18	-77.5%
EUROPEAN NAPHTHA BALMO	KZ	2	13.35	-82.0%	8.76	-72.6%	12	15.63	-21.6%
EUROPEAN NAPHTHA CRACK SPR	EN	170	270.8	-37.2%	405.86	-58.1%	424	321.69	31.7%
EUROPE DATED BRENT SWAP	UB	29	0	-	120	-75.8%	21	10.12	107.8%
EUROPE JET KERO NWE CALSW	UJ	0	0	-	0	-	0	0.42	-63.0%
EUROPE NAPHTHA CALSWAP	UN	83	111.7	-25.3%	124.48	-33.0%	158	127.26	24.0%
EURO PROPANE CIF ARA SWA	PS	47	51.8	-9.1%	97.67	-51.8%	84	61	38.3%
FLORIDA GAS ZONE3 BASIS S	FP	0	0	-	0	-	0	0	-
FREIGHT MARKETS	FLP	17	8.75	98.9%	16.05	8.4%	10	7.16	40.4%
FREIGHT MARKETS	FRC	0	0	-	0	-	2	0	-
FREIGHT MARKETS	FRS	0	2.5	-100.0%	0	-	0	0.2	-100.0%
FREIGHT MARKETS	T2D	16	0	-	57.86	-73.2%	20	0	-
FREIGHT MARKETS	TC6	0	0	-	0	-	1	0	-
FREIGHT MARKETS	TD3	0	0	-	0	-	0	0	-
FREIGHT MARKETS	TD8	0	0	-	0	-	1	0	-

NYMEX/COMEX Exchange ADV Report - Monthly

December 2018

Page 7 of 21

Commodity		ADV DEC 2018	ADV DEC 2017	% CHG	ADV NOV 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
Energy Futures									
FUEL OIL CRACK VS ICE	FO	55	81.55	-32.1%	68.67	-19.3%	153	163.47	-6.3%
FUEL OIL NWE CRACK VS ICE	FI	0	0	-	0	-	1	0	-
FUEL OIL (PLATS) CAR CM	1W	0	0	-	0	-	1	0.08	666.8%
FUEL OIL (PLATS) CAR CN	1X	0	0	-	0	-	0	0	-
FUELOIL SWAP:CARGOES VS.B	FS	21	5.6	278.6%	0.71	2867.9%	10	12.29	-17.6%
GAS EURO-BOB OXY NWE BARGES	7H	233	178.25	30.4%	253.24	-8.2%	342	288.41	18.6%
GAS EURO-BOB OXY NWE BARGES CRK	7K	404	730.55	-44.7%	608.57	-33.7%	818	888.63	-7.9%
GASOIL 0.1 CIF MED SWAP	Z4	0	0	-	0	-	0	0	-
GASOIL 0.1CIF MED VS ICE	Z5	0	0	-	0	-	0	0.2	-80.1%
GASOIL 0.1 CIF NWE VS ISE	TU	0	0	-	0	-	0	0	-
GASOIL 0.1 CIF VS ICE GAS	8W	0	0	-	0	-	0	0.08	-100.0%
GASOIL 0.1 RDAM BRGS VS I	WQ	0	3	-100.0%	0	-	0	1.41	-97.2%
GASOIL 0.1 ROTTERDAM BARG	VL	1	0.75	-33.3%	1.24	-59.6%	6	0.68	782.4%
GASOIL 10P CRG CIF NW VS	3V	0	0	-	0	-	0	0.1	-100.0%
GASOIL 10PPM VS ICE SWAP	TP	0	0	-	0	-	0	2.9	-97.1%
GASOIL BULLET SWAP	BG	0	16.5	-100.0%	0	-	0	1.83	-100.0%
GASOIL CALENDAR SWAP	GX	0	0	-	0.57	-100.0%	0	0.97	-73.1%
GASOIL CRACK SPREAD CALEN	GZ	59	119.7	-50.4%	28.76	106.5%	156	308.99	-49.5%
GASOIL MINI CALENDAR SWAP	QA	6	7.2	-16.7%	38.24	-84.3%	12	6.43	82.0%
GROUP THREE ULSD (PLATTS)	A7	0	0	-	2.14	-100.0%	1	0.5	99.2%
GROUP THREE UNLEAD GAS (P	A9	0	0	-	0	-	2	0	-
GRP THREE ULSD(PLT)VS HEA	A6	163	269.5	-39.4%	182.19	-10.3%	169	212.03	-20.4%
GRP THREE UNL GS (PLT) VS	A8	125	75.25	65.8%	82.62	51.0%	103	54.36	88.6%
GULF COAST 3% FUEL OIL BA	VZ	22	212.75	-89.5%	33.48	-33.4%	56	67.7	-17.7%
GULF COAST JET FUEL CLNDR	GE	10	14.1	-27.7%	9.86	3.5%	6	5.06	26.0%
GULF COAST JET VS NYM 2 H	ME	826	1,250.4	-33.9%	1,083.71	-23.8%	1,603	1,912.74	-16.2%
GULF COAST NO.6 FUEL OIL	MF	1,532	2,963.2	-48.3%	1,455.86	5.2%	2,415	2,507.18	-3.7%
GULF COAST NO.6 FUEL OIL	MG	47	86.5	-45.9%	39.52	18.4%	72	77.33	-6.4%
GULF COAST ULSD CALENDAR	LY	19	18.95	-0.5%	12.1	55.8%	16	23.72	-33.9%
GULF COAST ULSD CRACK SPR	GY	0	0	-	11.43	-100.0%	7	15.42	-57.4%
HEATING OIL BALMO CLNDR S	1G	0	11.35	-100.0%	0	-	1	4.21	-77.1%
HEATING OIL PHY	HOL	0	0	-	0	-	0	0	-
HENRY HUB BASIS SWAP	HB	0	0	-	0	-	127	210.09	-39.4%
HENRY HUB FINANCIAL LAST	NBP	0	53.45	-100.0%	0	-	106	21.22	401.5%
HENRY HUB FINANCIAL LAST	TTE	0	14.7	-100.0%	0	-	4	4.71	-25.4%
HENRY HUB INDEX SWAP FUTU	IN	0	0	-	0	-	127	201.36	-36.8%

NYMEX/COMEX Exchange ADV Report - Monthly

December 2018

Page 8 of 21

Commodity		ADV DEC 2018	ADV DEC 2017	% CHG	ADV NOV 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
Energy Futures									
HENRY HUB SWAP	NN	5,330	11,261.55	-52.7%	7,969.76	-33.1%	7,761	9,066.48	-14.4%
HOUSTON SHIP CHANNEL BASI	NH	0	0	-	0	-	0	36.88	-100.0%
HUSTN SHIP CHNL PIPE SWP	XJ	0	0	-	0	-	0	2.86	-100.0%
ICE BRENT DUBAI SWAP	DB	128	113.35	12.5%	185.24	-31.2%	424	477.28	-11.2%
ICE GASOIL BALMO SWAP	U9	0	0	-	0	-	0	0.04	-100.0%
IN DELIVERY MONTH EUA	6T	0	0	-	0	-	5	11.35	-56.4%
INDIANA MISO	FAD	0	0	-	0	-	0	0	-
INDIANA MISO	FTD	0	0	-	0	-	0	0	-
INDIANA MISO	FTM	0	0	-	0	-	0	0	-
INDIANA MISO	PDD	0	0	-	0	-	0	0	-
INDIANA MISO	PTD	0	0	-	0	-	0	0	-
INDONESIAN COAL	MCC	0	0	-	0	-	0	0.02	-100.0%
INDONESIAN COAL ICI4	ICI	2	0	-	9.76	-79.5%	7	0	-
ISO NEW ENGLAND OFF-PEAK	KI	0	0	-	0	-	0	0	-
ISO NEW ENGLAND PK LMP	NI	0	0	-	0	-	0	0.04	-100.0%
JAPAN C&F NAPHTHA CRACK S	JB	0	37.75	-100.0%	7.67	-100.0%	8	29.47	-74.6%
JAPAN C&F NAPHTHA SWAP	JA	41	81.7	-49.3%	52.62	-21.2%	91	73.34	24.7%
JAPAN NAPHTHA BALMO SWAP	E6	0	0.4	12.5%	0.95	-52.8%	3	5.65	-55.3%
JET AV FUEL (P) CAR FM ICE GAS SWAP	1V	0	0	-	0	-	0	0.14	-86.2%
JET CIF NWE VS ICE	JC	2	3.5	-50.0%	0	-	3	5.25	-48.8%
JET FUEL BRG FOB RDM VS I	9Q	0	0	-	0	-	0	0.02	-100.0%
JET FUEL CRG CIF NEW VS I	6X	0	0	-	0	-	0	0.26	-100.0%
JET FUEL UP-DOWN BALMO CL	1M	285	222.25	28.3%	255.71	11.6%	283	322.06	-12.2%
LA CARB DIESEL (OPIS)	LX	0	0	-	0	-	0	0	-
LA CARB DIESEL (OPIS) SWA	KL	10	5	92.0%	5.95	61.3%	13	8.84	47.5%
LA CARBOB GASOLINE(OPIS)S	JL	8	22.5	-64.4%	19.52	-59.0%	23	12.85	75.1%
LA JET FUEL VS NYM NO 2 H	MQ	0	0	-	0	-	0	0.1	-100.0%
LA JET (OPIS) SWAP	JS	30	62.75	-52.6%	33.33	-10.7%	86	80.16	7.8%
LLS (ARGUS) CALENDAR SWAP	XA	0	0	-	0	-	2	0	-
LLS (ARGUS) VS WTI SWAP	WJ	60	451.5	-86.8%	133.33	-55.2%	241	258.92	-7.1%
LOS ANGELES CARB GASOLINE	MH	0	0	-	0.48	-100.0%	0	0	-
MARS (ARGUS) VS WTI SWAP	YX	1	126	-99.0%	46.9	-97.3%	88	145.57	-39.2%
MARS (ARGUS) VS WTI TRD M	YV	665	1,264.5	-47.4%	603.1	10.3%	926	1,035.88	-10.6%
MARS BLEND CRUDE OIL	MB	0	160.45	-100.0%	0	-	9	72.42	-87.3%
MCCLOSKEY ARA ARGS COAL	MTF	577	954.9	-39.6%	1,189.48	-51.5%	1,088	1,996.53	-45.5%
MCCLOSKEY RCH BAY COAL	MFF	49	128.2	-62.0%	100	-51.3%	132	221.27	-40.3%

NYMEX/COMEX Exchange ADV Report - Monthly

December 2018

Page 9 of 21

Commodity		ADV DEC 2018	ADV DEC 2017	% CHG	ADV NOV 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
Energy Futures									
MGF FUT	MGF	0	0	-	0.48	-100.0%	1	1.26	-15.5%
MGN1 SWAP FUT	MGN	6	2.6	111.5%	5.71	-3.8%	4	4.49	-18.4%
MICHIGAN BASIS	NF	0	0	-	0	-	0	10.95	-100.0%
MICHIGAN MISO	HMO	0	0	-	0	-	0	424.06	-100.0%
MICHIGAN MISO	HMW	0	0	-	0	-	0	22.83	-100.0%
MINI GAS EUROBOB OXY NWE ARGS BALM	MEB	5	33.4	-84.4%	17.24	-69.8%	15	21.43	-27.7%
MINI RBOB V. EBOBARG NWE BRGS BALMO	MXR	18	6	198.3%	0	-	15	23.29	-36.3%
MINI RBOB V. EBOB(ARGUS) NWE BRGS	MXB	42	70.6	-40.9%	62.95	-33.7%	83	103.76	-20.0%
MJC FUT	MJC	0	11.75	-100.0%	2.38	-100.0%	6	6.14	-5.6%
MNC FUT	MNC	143	92.25	54.7%	239.33	-40.4%	193	182.19	6.0%
MONT BELVIEU ETHANE 5 DECIMAL	C0	856	736.7	16.1%	402.19	112.7%	754	1,023.01	-26.3%
MONT BELVIEU ETHANE OPIS BALMO	8C	11	16.75	-37.3%	3.81	175.6%	8	12.77	-41.0%
MONT BELVIEU LDH PROPANE 5 DECIMAL	B0	3,984	5,026.1	-20.7%	6,503.86	-38.7%	5,802	4,470.65	29.8%
MONT BELVIEU LDH PROPANE OPIS BALM	8O	148	75.1	96.8%	89.1	65.9%	119	77.83	52.8%
MONT BELVIEU NATURAL GASOLINE 5 DEC	7Q	291	1,085	-73.2%	374.19	-22.4%	388	340.66	13.9%
MONT BELVIEU NATURAL GASOLINE BALM	R0	28	16.15	74.9%	1.9	1383.1%	17	14.61	13.8%
MONT BELVIEU NORMAL BUTANE 5 DECIM	D0	1,360	938.7	44.9%	1,566.81	-13.2%	1,695	1,380.35	22.8%
MONT BELVIEU NORMAL BUTANE BALMO	8J	46	34.8	31.6%	43.81	4.5%	51	33.61	52.4%
NAT GAS BASIS SWAP	TZ6	0	0	-	0	-	0	10.31	-100.0%
NATURAL GAS	XIC	0	0	-	0	-	0	0.18	-100.0%
NATURAL GAS FIXED PRICE SWAP FUTURE	DSF	0	0	-	0	-	0	1.43	-100.0%
NATURAL GAS INDEX	TZI	0	0	-	0	-	0	2.61	-100.0%
NATURAL GAS PEN SWP	NP	1,612	2,378.6	-32.2%	2,601.52	-38.0%	1,676	3,878	-56.8%
NEPOOL CNCTCT 5MW D AH O	P3	0	0	-	0	-	0	0	-
NEPOOL CONECTIC 5MW D AH	P2	0	0	-	0	-	0	0	-
NEPOOL INTR HUB 5MW D AH	H2	0	0	-	0	-	541	936.81	-42.2%
NEPOOL INTR HUB 5MW D AH	U6	0	0	-	0	-	50	68.82	-26.7%
NEPOOL NE MASS 5MW D AH O	P8	0	0	-	0	-	0	55.94	-100.0%
NEPOOL NE MASS 5MW D AH P	P7	0	0	-	0	-	0	3.05	-100.0%
NEPOOL RHD ISLD 5MW D AH	U4	0	0	-	0	-	0	0	-
NEPOOL RHODE IL 5MW D AH	U5	0	0	-	0	-	0	0	-
NEPOOL W CNT MASS 5MW D A	L9	0	0	-	0	-	0	0	-
NEPOOL W CNTR M 5MW D AH	R6	0	0	-	0	-	0	0	-
NEW ENGLAND HUB PEAK DAIL	CE	0	0	-	0	-	0	0	-
NEW YORK ETHANOL SWAP	EZ	28	78.5	-64.6%	16.05	72.9%	50	43.11	15.8%
NEW YORK HUB ZONE G PEAK	GN	0	0	-	0	-	0	0	-

NYMEX/COMEX Exchange ADV Report - Monthly

December 2018

Page 10 of 21

Commodity		ADV DEC 2018	ADV DEC 2017	% CHG	ADV NOV 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
Energy Futures									
NEW YORK HUB ZONE J PEAK	JN	0	0	-	0	-	0	0	-
NGPL MID-CONTINENT	NL	0	0	-	61.9	-100.0%	19	18.62	1.2%
NGPL TEX/OK	PD	120	0	-	146.67	-18.2%	199	36.71	441.8%
N ILLINOIS HUB DAILY	UD	0	0	-	0	-	0	0	-
N ILLINOIS HUB MTHLY	UM	0	0	-	0	-	0	0	-
NO 2 UP-DOWN SPREAD CALEN	UT	8	5	50.0%	0	-	12	14.98	-17.0%
NORTHERN NATURAL GAS DEMAR	PE	0	0	-	0	-	0	0	-
NORTHERN NATURAL GAS VENTU	PF	0	0	-	0	-	0	0.53	-24.5%
NORTHERN ILLINOIS OFF-PEA	UO	0	0	-	0	-	0	0	-
NORTHWEST ROCKIES BASIS S	NR	0	0	-	0	-	0	12.3	-100.0%
N ROCKIES PIPE SWAP	XR	0	0	-	0	-	0	1.33	-82.4%
NY1% VS GC SPREAD SWAP	VR	73	119	-38.4%	24.29	201.6%	61	103.02	-40.8%
NY 2.2% FUEL OIL (PLATTS	Y3	0	0	-	0	-	0	0	-
NY 3.0% FUEL OIL (PLATTS	H1	6	7.5	-26.7%	0	-	8	13.59	-44.4%
NY HARBOR 1% FUEL OIL BAL	VK	0	0	-	0	-	0	0.1	99.2%
NY HARBOR HEAT OIL SWP	MP	84	62.75	33.6%	224.9	-62.7%	117	98.56	18.6%
NY HARBOR LOW SULPUR GAS 1000MBBL	NLS	0	0	-	28.57	-100.0%	14	17.02	-19.7%
NY HARBOR RESIDUAL FUEL 1	MM	63	124.05	-49.0%	29.57	113.9%	50	113.72	-55.8%
NY HARBOR RESIDUAL FUEL C	ML	0	0	-	2.38	-100.0%	0	0	-
NYH NO 2 CRACK SPREAD CAL	HK	3	10.5	-71.4%	25.43	-88.2%	34	56.75	-39.6%
NYISO A	KA	0	0	-	0	-	0	0	-
NYISO A OFF-PEAK	KB	0	0	-	0	-	0	0	-
NYISO CAPACITY	LHV	6	0	-	0	-	3	1.8	68.4%
NYISO CAPACITY	NNC	0	0	-	2.86	-100.0%	3	9.19	-65.7%
NYISO CAPACITY	NRS	3	0	-	0	-	2	11.55	-86.4%
NYISO G	KG	0	0	-	0	-	0	0	-
NYISO G OFF-PEAK	KH	0	0	-	0	-	0	0	-
NYISO J	KJ	0	0	-	0	-	0	0	-
NYISO J OFF-PEAK	KK	0	0	-	0	-	0	0	-
NYISO ZONE A 5MW D AH O P	K4	0	0	-	0	-	176	130.52	34.6%
NYISO ZONE A 5MW D AH PK	K3	0	21	-100.0%	0	-	8	28.82	-74.0%
NYISO ZONE C 5MW D AH O P	A3	0	0	-	0	-	0	0	-
NYISO ZONE C 5MW D AH PK	Q5	0	0	-	0	-	0	0.44	-100.0%
NYISO ZONE G 5MW D AH O P	D2	0	467.2	-100.0%	550	-100.0%	2,486	3,147.13	-21.0%
NYISO ZONE G 5MW D AH PK	T3	0	153.2	-100.0%	30.24	-100.0%	84	241.71	-65.3%
NYISO ZONE J 5MW D AH O P	D4	0	0	-	0	-	0	902.79	-100.0%

NYMEX/COMEX Exchange ADV Report - Monthly

December 2018

Page 11 of 21

Commodity		ADV DEC 2018	ADV DEC 2017	% CHG	ADV NOV 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
Energy Futures									
NYISO ZONE J 5MW D AH PK	D3	0	127.5	-100.0%	0	-	0	116.89	-100.0%
NYMEX ALUMINUM FUTURES	AN	0	0	-	0	-	0	0	-
NYMEX ULSD VS NYMEX HO	UY	0	0	-	0	-	0	0	-
NY ULSD (ARGUS) VS HEATING OIL	7Y	0	0	-	0	-	1	32.85	-97.4%
ONEOK OKLAHOMA NG BASIS	8X	0	0	-	0	-	11	7.12	50.6%
ONTARIO POWER SWAPS	OFD	0	0	-	0	-	0	0	-
ONTARIO POWER SWAPS	OFM	0	0	-	0	-	0	0	-
ONTARIO POWER SWAPS	OPD	0	0.25	-100.0%	0	-	0	2.03	-98.0%
ONTARIO POWER SWAPS	OPM	0	0	-	0	-	0	2.59	-100.0%
PANHANDLE BASIS SWAP FUTU	PH	0	0	-	0	-	1	12.19	-91.0%
PANHANDLE PIPE SWAP	XH	0	0	-	0	-	0	12.86	-100.0%
PERMIAN BASIS SWAP	PM	0	0	-	0	-	0	5.5	-100.0%
PETROCHEMICALS	22	7	12.1	-42.6%	5.14	35.1%	8	4.64	81.0%
PETROCHEMICALS	32	6	4	38.7%	2.43	128.5%	7	5.1	35.7%
PETROCHEMICALS	3NA	2	0	-	0.24	740.0%	0	0	-
PETROCHEMICALS	51	0	0	-	0	-	0	0	-
PETROCHEMICALS	8I	7	23.75	-72.0%	0	-	27	27.97	-2.2%
PETROCHEMICALS	91	11	20.35	-45.9%	22.71	-51.6%	20	13.93	42.9%
PETROCHEMICALS	HPE	0	0	-	0	-	0	0	-
PETROCHEMICALS	JKM	31	29.75	4.2%	158.81	-80.5%	65	5.26	1129.9%
PETROCHEMICALS	MAA	0	0	-	0	-	0	0	-
PETROCHEMICALS	MAC	0	0	-	0	-	0	0.2	-100.0%
PETROCHEMICALS	MAE	11	3.5	208.6%	24.86	-56.6%	11	2.27	385.8%
PETROCHEMICALS	MAS	9	1.5	466.7%	17.62	-51.8%	9	1.61	453.6%
PETROCHEMICALS	MBE	14	6.5	107.7%	17.14	-21.3%	36	49.28	-26.2%
PETROCHEMICALS	MNB	47	36.65	27.1%	60.57	-23.1%	82	79.55	2.7%
PETROCHEMICALS	MPS	5	4	36.3%	9.67	-43.6%	6	0.72	709.0%
PETRO CRCKS & SPRDS ASIA	JNC	0	0	-	0	-	0	0.6	-100.0%
PETRO CRCKS & SPRDS ASIA	STI	0	0	-	0	-	0	0.73	-100.0%
PETRO CRCKS & SPRDS ASIA	STR	20	0	-	14.29	36.5%	3	1.05	198.1%
PETRO CRCKS & SPRDS ASIA	STS	0	39.6	-100.0%	1.43	-100.0%	2	9.88	-78.4%
PETRO CRCKS & SPRDS NA	CRB	303	17.5	1630.0%	330.24	-8.3%	142	12.47	1041.8%
PETRO CRCKS & SPRDS NA	EXR	89	90.4	-1.9%	90.33	-1.9%	131	115.14	13.7%
PETRO CRCKS & SPRDS NA	FOC	15	33.75	-55.6%	9.52	57.5%	29	31.39	-8.0%
PETRO CRCKS & SPRDS NA	GBB	102	32.5	213.1%	20.95	385.6%	59	54	8.5%
PETRO CRCKS & SPRDS NA	GCC	0	0	-	0	-	7	5.22	32.3%

NYMEX/COMEX Exchange ADV Report - Monthly

December 2018

Page 12 of 21

Commodity		ADV DEC 2018	ADV DEC 2017	% CHG	ADV NOV 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
Energy Futures									
PETRO CRCKS & SPRDS NA	GCI	17	36.5	-52.5%	25.67	-32.4%	59	45.13	31.4%
PETRO CRCKS & SPRDS NA	GCM	0	0	-	0	-	1	0.24	175.1%
PETRO CRCKS & SPRDS NA	GCU	404	378.6	6.7%	302.81	33.4%	517	291.65	77.2%
PETRO CRCKS & SPRDS NA	GFC	0	1	-100.0%	0	-	0	2.21	-92.8%
PETRO CRCKS & SPRDS NA	HOB	4	104.85	-96.0%	21.57	-80.5%	37	139.57	-73.8%
PETRO CRCKS & SPRDS NA	KSD	0	0	-	0	-	0	0.3	-100.0%
PETRO CRCKS & SPRDS NA	MFR	0	0	-	0	-	0	0	-
PETRO CRCKS & SPRDS NA	NFG	0	0	-	0	-	0	0.43	-54.3%
PETRO CRCKS & SPRDS NA	NYF	0	0	-	0	-	0	4.48	-100.0%
PETRO CRCKS & SPRDS NA	NYH	0	0	-	0	-	0	0	-
PETRO CRCKS & SPRDS NA	RBB	16	101.95	-84.1%	157.86	-89.7%	230	345.49	-33.5%
PETRO CRCKS & SPRDS NA	RVG	657	390.45	68.3%	695.19	-5.5%	746	721.26	3.4%
PETRO CRCKS & SPRDS NA	SF3	1	0	-	1.19	5.0%	1	0.06	2361.9%
PETRO CRK&SPRD EURO	1NB	21	39	-47.4%	77.38	-73.5%	80	55.77	43.2%
PETRO CRK&SPRD EURO	1ND	0	5	-100.0%	0	-	0	2.09	-81.0%
PETRO CRK&SPRD EURO	43	0	6.15	-100.0%	0	-	14	14.42	-6.0%
PETRO CRK&SPRD EURO	BFR	0	0	-	0	-	0	0	-
PETRO CRK&SPRD EURO	BOB	22	36.8	-40.6%	46.67	-53.2%	72	80.72	-10.8%
PETRO CRK&SPRD EURO	EGB	0	0	-	0	-	0	0.02	-100.0%
PETRO CRK&SPRD EURO	EGN	0	0	-	0	-	0	0.07	-100.0%
PETRO CRK&SPRD EURO	EOB	0	0	-	0	-	1	0.51	74.1%
PETRO CRK&SPRD EURO	EPN	13	35.45	-64.0%	33	-61.4%	43	25.77	65.4%
PETRO CRK&SPRD EURO	EVC	25	145.7	-82.7%	54.19	-53.5%	86	118.43	-27.5%
PETRO CRK&SPRD EURO	FVB	0	0	-	0	-	0	0	-
PETRO CRK&SPRD EURO	GCB	16	0	-	0	-	4	2.94	35.5%
PETRO CRK&SPRD EURO	GOC	0	0	-	0	-	0	0.48	-30.3%
PETRO CRK&SPRD EURO	MGB	0	0	-	5.24	-100.0%	1	0.6	46.1%
PETRO CRK&SPRD EURO	MUD	0	0.6	-100.0%	0.48	-100.0%	1	3.63	-81.1%
PETRO CRK&SPRD EURO	NBB	0	0.25	-100.0%	0	-	1	0.55	30.4%
PETRO CRK&SPRD EURO	NOB	34	47.35	-27.8%	108.14	-68.4%	85	51.38	65.2%
PETRO CRK&SPRD EURO	SFB	0	0	-	0	-	0	0.71	-30.1%
PETROLEUM PRODUCTS	EWB	0	0	-	0	-	0	0	-
PETROLEUM PRODUCTS	EWG	141	124.8	12.7%	208.67	-32.6%	232	129.66	78.8%
PETROLEUM PRODUCTS	MBS	0	0	-	0	-	0	0.32	-100.0%
PETROLEUM PRODUCTS	MGS	0	0	-	0	-	0	0.08	-100.0%
PETROLEUM PRODUCTS	MME	0	0	-	1.43	-100.0%	0	0.2	19.5%

NYMEX/COMEX Exchange ADV Report - Monthly

December 2018

Page 13 of 21

Commodity		ADV DEC 2018	ADV DEC 2017	% CHG	ADV NOV 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
Energy Futures									
PETROLEUM PRODUCTS	MPE	0	0.9	-100.0%	0	-	0	0.47	-100.0%
PETROLEUM PRODUCTS	VU	0	10.45	-100.0%	14.05	-100.0%	5	12.84	-58.6%
PETROLEUM PRODUCTS ASIA	E6M	0	0	-	0	-	3	0.96	193.9%
PETROLEUM PRODUCTS ASIA	MJN	70	71.9	-2.6%	107.86	-35.1%	90	83	8.5%
PETROLEUM PRODUCTS ASIA	MSB	0	0	-	0	-	0	0.18	-100.0%
PETRO OUTFRIGHT EURO	0B	1	0	-	1.9	-47.5%	1	0.65	-12.0%
PETRO OUTFRIGHT EURO	0C	0	0	-	0	-	0	0.28	-67.3%
PETRO OUTFRIGHT EURO	0D	60	59.85	0.7%	71	-15.1%	63	105.47	-40.6%
PETRO OUTFRIGHT EURO	0E	1	1.65	-66.7%	0	-	1	16.48	-94.0%
PETRO OUTFRIGHT EURO	0F	22	19.2	14.3%	21.14	3.8%	24	46.68	-48.9%
PETRO OUTFRIGHT EURO	1T	0	0	-	0	-	0	0.41	-61.9%
PETRO OUTFRIGHT EURO	33	0	0	-	0	-	0	0.32	-100.0%
PETRO OUTFRIGHT EURO	5L	1	0	-	1.9	-42.3%	1	2.82	-59.8%
PETRO OUTFRIGHT EURO	63	0	4.1	-100.0%	1.9	-100.0%	1	3.42	-74.8%
PETRO OUTFRIGHT EURO	6L	0	0	-	0	-	0	0.03	-100.0%
PETRO OUTFRIGHT EURO	7I	0	2.5	-100.0%	3.52	-100.0%	5	4.81	1.9%
PETRO OUTFRIGHT EURO	7R	4	7.6	-49.3%	3.48	10.8%	12	10.59	15.6%
PETRO OUTFRIGHT EURO	88	0	0	-	0.95	-100.0%	0	0.3	66.0%
PETRO OUTFRIGHT EURO	CBB	0	0	-	1.19	-100.0%	0	0.21	53.2%
PETRO OUTFRIGHT EURO	CGB	0	0	-	0	-	0	0.2	-100.0%
PETRO OUTFRIGHT EURO	CPB	8	33.95	-77.2%	6.05	28.2%	14	14.07	1.7%
PETRO OUTFRIGHT EURO	EFF	0	0.65	-100.0%	1	-100.0%	1	1.29	-43.0%
PETRO OUTFRIGHT EURO	EFM	0	0	-	0	-	0	1.8	-100.0%
PETRO OUTFRIGHT EURO	ENS	0	12	-97.9%	0	-	1	1.67	-64.4%
PETRO OUTFRIGHT EURO	ESB	0	0	-	0	-	0	0.27	-100.0%
PETRO OUTFRIGHT EURO	EWN	30	39.4	-24.0%	34.24	-12.5%	34	32.98	1.8%
PETRO OUTFRIGHT EURO	FBD	0	0	-	0	-	0	0.08	-100.0%
PETRO OUTFRIGHT EURO	FLB	0	0	-	0	-	0	0	-
PETRO OUTFRIGHT EURO	GES	0	0	-	0	-	0	0	-
PETRO OUTFRIGHT EURO	MBB	0	0	-	2.38	-100.0%	1	2.19	-41.9%
PETRO OUTFRIGHT EURO	MBN	52	30	74.0%	7.14	630.8%	40	46.56	-13.4%
PETRO OUTFRIGHT EURO	MEF	16	0	-	17.19	-9.3%	7	0	-
PETRO OUTFRIGHT EURO	SMU	0	0	-	0	-	2	0.16	1276.7%
PETRO OUTFRIGHT EURO	T0	0	0	-	0	-	0	0.65	-94.5%
PETRO OUTFRIGHT EURO	ULB	0	0	-	0	-	0	1.49	-100.0%
PETRO OUTFRIGHT EURO	V0	0	0	-	0	-	4	0.6	550.8%

NYMEX/COMEX Exchange ADV Report - Monthly

December 2018

Page 14 of 21

Commodity		ADV DEC 2018	ADV DEC 2017	% CHG	ADV NOV 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
Energy Futures									
PETRO OUTRIGHT EURO	X0	0	0	-	0	-	0	0	-
PETRO OUTRIGHT NA	FCB	0	0	-	0	-	3	7.31	-56.2%
PETRO OUTRIGHT NA	FOM	0	0	-	0	-	0	0.2	-84.1%
PETRO OUTRIGHT NA	JE	0	0	-	2	-100.0%	0	1.67	-73.7%
PETRO OUTRIGHT NA	JET	86	36	138.9%	93.57	-8.1%	139	178.51	-22.0%
PETRO OUTRIGHT NA	JTB	23	6.25	260.0%	42.86	-47.5%	32	15.69	102.3%
PETRO OUTRIGHT NA	MBL	0	0	-	0	-	0	1.06	-85.0%
PETRO OUTRIGHT NA	MEN	5	5.25	-10.5%	17.76	-73.5%	19	26.51	-27.4%
PETRO OUTRIGHT NA	MEO	70	156.15	-55.0%	118.9	-40.9%	158	377.4	-58.0%
PETRO OUTRIGHT NA	MFD	0	2.2	-100.0%	0	-	0	0.98	-59.7%
PETRO OUTRIGHT NA	MMF	2	1.2	66.7%	1.29	55.6%	1	2.13	-51.5%
PETRO OUTRIGHT NA	NYT	0	0	-	0	-	0	2.49	-100.0%
PETRO OUTRIGHT NA	XER	0	0	-	0	-	1	0	-
PJM AD HUB 5MW REAL TIME	V3	372	0	-	1,112.38	-66.6%	286	1,148.8	-75.1%
PJM AD HUB 5MW REAL TIME	Z9	42	0	-	61.19	-31.4%	60	90.96	-33.7%
PJM AECO DA OFF-PEAK	X1	0	0	-	0	-	0	0	-
PJM AECO DA PEAK	Y1	0	0	-	0	-	0	0	-
PJM APS ZONE DA OFF-PEAK	W4	0	0	-	0	-	0	0	-
PJM APS ZONE DA PEAK	S4	0	0	-	0	-	0	0	-
PJM ATSI ELEC	MOD	0	0	-	0	-	0	186.45	-100.0%
PJM ATSI ELEC	MPD	0	0	-	0	-	0	10.16	-100.0%
PJM BGE DA OFF-PEAK	R3	0	0	-	0	-	0	0	-
PJM BGE DA PEAK	E3	0	0	-	0	-	0	0	-
PJM COMED 5MW D AH O PK	D9	0	0	-	0	-	0	340.2	-100.0%
PJM COMED 5MW D AH PK	D8	0	0	-	0	-	0	18.63	-100.0%
PJM DAILY	JD	0	0	-	0	-	0	0	-
PJM DAYTON DA OFF-PEAK	R7	0	0	-	0	-	0	844.6	-100.0%
PJM DAYTON DA PEAK	D7	0	0	-	0	-	0	20.92	-100.0%
PJM JCPL DA OFF-PEAK	F2	0	0	-	0	-	0	0	-
PJM JCPL DA PEAK	J2	0	0	-	0	-	0	0	-
PJM NI HUB 5MW REAL TIME	B3	42	0	-	0	-	29	315.94	-90.9%
PJM NI HUB 5MW REAL TIME	B6	0	0	-	0	-	24	6,851.2	-99.7%
PJM NILL DA OFF-PEAK	L3	0	0	-	0	-	3	2,747.96	-99.9%
PJM NILL DA PEAK	N3	0	0	-	0	-	0	157.34	-99.8%
PJM OFF-PEAK LMP SWAP FUT	JP	0	0	-	0	-	0	0	-
PJM PECO ZONE5MW PEAK CAL MO DAY A	4N	0	0	-	140.95	-100.0%	12	0	-

NYMEX/COMEX Exchange ADV Report - Monthly

December 2018

Page 15 of 21

Commodity		ADV DEC 2018	ADV DEC 2017	% CHG	ADV NOV 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
Energy Futures									
PJM PPL DA OFF-PEAK	F5	0	0	-	0	-	0	0	-
PJM PPL DA PEAK	L5	0	0	-	0	-	0	0	-
PJM PSEG DA OFF-PEAK	W6	0	0	-	2,637.14	-100.0%	313	0	-
PJM PSEG DA PEAK	L6	0	0	-	140.95	-100.0%	17	0	-
PJM WESTH DA OFF-PEAK	E4	0	0	-	0	-	404	216.33	86.8%
PJM WESTHDA PEAK	J4	0	0	-	0	-	22	34.34	-36.2%
PJM WESTH RT OFF-PEAK	N9	1,002	1,168	-14.2%	1,112.38	-9.9%	1,558	8,799.9	-82.3%
PJM WESTH RT PEAK	L1	143	736.25	-80.6%	85.67	66.9%	253	889.71	-71.5%
PLASTICS	PGP	27	14	91.8%	33.76	-20.5%	22	24.96	-11.6%
PREMIUM UNLD 10P FOB MED	3G	16	2.5	540.0%	21.24	-24.7%	13	3.64	244.1%
PREMIUM UNLEAD 10PPM FOB	8G	0	0	-	0.24	-100.0%	2	0.65	172.4%
PREM UNL GAS 10PPM RDAM FOB BALMO	7N	0	0	-	0.14	-100.0%	0	0.03	1080.6%
PREM UNL GAS 10PPM RDAM FOB SWAP	7L	2	0	-	0	-	1	0.15	885.3%
PROPANE NON-LDH MB (OPIS) BALMO SWP	1S	91	16.25	459.1%	0.33	27157.7%	28	20.92	33.0%
PROPANE NON-LDH MT. BEL (OPIS) SWP	1R	583	426.5	36.8%	589.67	-1.1%	599	346.87	72.6%
RBOB CALENDAR SWAP	RL	160	194.05	-17.5%	172	-6.9%	259	333.94	-22.3%
RBOB CRACK SPREAD	RM	4	27.75	-86.5%	2.62	43.2%	38	45.27	-15.3%
RBOB CRACK SPREAD BALMO S	1E	0	0	-	0	-	0	0	-
RBOB GASOLINE BALMO CLNDR	1D	25	94	-72.9%	18.86	35.0%	46	48.78	-4.9%
RBOB PHY	RBL	0	0	-	0	-	0	0	-
RBOB SPREAD (PLATTS) SWAP	RI	0	0	-	0	-	0	0	-
RBOB VS HEATING OIL SWAP	RH	0	32.5	-100.0%	0	-	8	70.6	-88.9%
SAN JUAN BASIS SWAP	NJ	0	0	-	0	-	0	8.98	-97.4%
SAN JUAN PIPE SWAP	XX	0	0	-	0	-	1	0	-
SINGAPORE 180CST BALMO	BS	1	4.5	-82.2%	0.48	68.0%	2	3.08	-35.6%
SINGAPORE 380CST BALMO	BT	8	8.25	-3.0%	4.43	80.6%	10	10.73	-9.2%
SINGAPORE 380CST FUEL OIL	SE	193	535.1	-63.9%	370	-47.8%	380	464.36	-18.1%
SINGAPORE FUEL 180CST CAL	UA	10	36.65	-72.6%	20.29	-50.5%	34	48.24	-28.6%
SINGAPORE FUEL OIL SPREAD	SD	4	4.75	-21.1%	8.33	-55.0%	25	28.04	-11.4%
SINGAPORE GASOIL	MAF	135	0	-	35.57	278.8%	19	0	-
SINGAPORE GASOIL	MTB	3	1.95	56.4%	2.29	33.4%	2	6.21	-60.7%
SINGAPORE GASOIL	MTS	147	249.85	-41.3%	271.33	-45.9%	222	229.24	-3.3%
SINGAPORE GASOIL	STZ	0	16.15	-100.0%	0	-	17	4.47	281.4%
SINGAPORE GASOIL CALENDAR	GDH	0	0	-	0	-	0	0	-
SINGAPORE GASOIL CALENDAR	GDL	0	0	-	0	-	1	0	-
SINGAPORE GASOIL CALENDAR	GHS	0	3	-85.0%	0	-	0	0.24	-85.1%

NYMEX/COMEX Exchange ADV Report - Monthly

December 2018

Page 16 of 21

Commodity		ADV DEC 2018	ADV DEC 2017	% CHG	ADV NOV 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
Energy Futures									
SINGAPORE GASOIL CALENDAR	MGO	1	6.5	-83.8%	0	-	1	0.52	69.3%
SINGAPORE GASOIL CALENDAR	MSG	13	7	78.6%	6.19	101.9%	20	13.12	55.2%
SINGAPORE GASOIL CALENDAR	SGG	0	8.4	-100.0%	0	-	1	0.67	92.7%
SINGAPORE GASOIL SWAP	SG	104	82.7	26.1%	75.48	38.1%	196	361.45	-45.8%
SINGAPORE GASOIL VS ICE	GA	66	30.9	114.4%	114.43	-42.1%	516	282.02	83.1%
SINGAPORE JET KERO BALMO	BX	0	0	-	0	-	1	2.14	-60.0%
SINGAPORE JET KERO GASOIL	RK	26	21.25	23.5%	32.14	-18.3%	140	74.64	87.9%
SINGAPORE JET KEROSENE SW	KS	9	0	-	13.1	-33.2%	53	51.71	3.2%
SINGAPORE JET KERO VS. GASOIL BALMO	Z0	0	0	-	0	-	2	0.2	696.8%
SINGAPORE MOGAS 92 UNLEADED BALMO	1P	15	14	5.7%	2.38	521.6%	24	8.27	191.1%
SINGAPORE MOGAS 92 UNLEADED SWP	1N	506	188	169.3%	669.81	-24.4%	643	341.52	88.3%
SINGAPORE NAPHTHA SWAP	SP	0	0	-	0	-	1	0	-
SING FUEL	MSD	0	0	-	0	-	0	0.48	-17.0%
SOCAL PIPE SWAP	XN	0	0	-	0	-	0	0	-
SONAT BASIS SWAP FUTURE	SZ	0	0	-	0	-	0	0	-
SOUTH STAR TEX OKLHM KNS	8Z	0	0	-	0	-	0	0	-
Sumas Basis Swap	NK	0	0	-	0	-	0	24.85	-98.5%
SUMAS NAT GAS PLATTS FIXED PRICE	DVS	0	0	-	0	-	0	1.22	-100.0%
TC2 ROTTERDAM TO USAC 37K	TM	0	7	-100.0%	9.29	-100.0%	4	0.88	376.3%
TC5 RAS TANURA TO YOKOHAM	TH	24	3.75	540.0%	7.62	215.0%	7	0.3	2111.2%
TCO BASIS SWAP	TC	43	0	-	0	-	3	35.65	-90.5%
TCO NG INDEX SWAP	Q1	0	0	-	0	-	0	0	-
TD3 MEG TO JAPAN 250K MT	TL	156	18	768.1%	243.33	-35.8%	82	1.55	5179.2%
TENNESSEE 500 LEG BASIS S	NM	0	0	-	0	-	0	1.71	-100.0%
TENNESSEE 800 LEG NG BASI	6Z	0	0	-	0	-	0	0	-
TENNESSEE ZONE 0 BASIS SW	NQ	0	0	-	0	-	0	1.93	-100.0%
TETCO M-3 INDEX	IX	0	0	-	0	-	0	0	-
Tetco STX Basis	TX	0	0	-	0	-	0	0	-
TEXAS EASTERN ZONE M-3 BA	NX	0	0	-	0	-	0	37.9	-100.0%
TEXAS GAS ZONE1 NG BASIS	9F	0	0	-	0	-	0	0	-
Transco Zone 3 Basis	CZ	0	0	-	0	-	0	1.2	-100.0%
TRANSCO ZONE 3 NG INDEX S	Y6	0	0	-	0	-	0	24.92	-100.0%
TRANSCO ZONE4 BASIS SWAP	TR	0	0	-	0	-	0	52.75	-100.0%
TRANSCO ZONE 4 NAT GAS IN	B2	0	0	-	0	-	0	1.85	-100.0%
TRANSCO ZONE 6 BASIS SWAP	NZ	0	0	-	0	-	0	14.84	-100.0%
TRANSCO ZONE 6 INDEX	IT	0	0	-	0	-	0	3.41	-100.0%

NYMEX/COMEX Exchange ADV Report - Monthly

December 2018

Page 17 of 21

Commodity		ADV DEC 2018	ADV DEC 2017	% CHG	ADV NOV 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
Energy Futures									
UCM FUT	UCM	1	0	-	0	-	0	1.18	-73.0%
ULSD 10PPM CIF MED SWAP	Z6	0	0	-	0	-	0	0.12	-100.0%
ULSD 10PPM CIF MED VS ICE	Z7	0	0	-	0	-	0	0.32	-82.8%
ULSD 10PPM CIF NW BALMO S	B1	0	0	-	0	-	0	0.02	-100.0%
ULSD UP-DOWN BALMO SWP	1L	180	452.5	-60.2%	379.57	-52.6%	269	249.06	7.8%
UP DOWN GC ULSD VS NMX HO	LT	1,039	1,745.9	-40.5%	1,670.24	-37.8%	1,522	2,196.77	-30.7%
WAHA BASIS	NW	13	36.15	-65.4%	0	-	14	27.04	-49.4%
WAHA INDEX SWAP FUTURE	IY	0	0	-	0	-	0	0	-
WESTERN RAIL DELIVERY PRB	QP	0	0	-	0	-	0	10.04	-99.0%
WTI-BRENT BULLET SWAP	BY	0	12.5	-100.0%	0	-	26	4.6	474.0%
WTI-BRENT CALENDAR SWAP	BK	672	2,100.5	-68.0%	874.33	-23.1%	1,377	1,001.72	37.4%
WTI CALENDAR	CS	1,290	2,107.25	-38.8%	1,768.57	-27.1%	1,585	1,785.01	-11.2%
WTS (ARGUS) VS WTI SWAP	FF	129	676	-81.0%	149.43	-13.9%	362	289.69	25.1%
WTS (ARGUS) VS WTI TRD MT	FH	6	0	-	5.71	5.0%	25	39.59	-36.4%

Energy Options

12 MO GASOIL CAL SWAP SPR	GXZ	0	0	-	0	-	0	3.31	-100.0%
BRENT 1 MONTH CAL	AA	0	0	-	0	-	12	0	-
BRENT CALENDAR SWAP	BA	150	0	-	13.62	1001.4%	65	21.3	206.7%
BRENT CRUDE OIL 12 M CSO	9Y	0	0	-	0	-	8	7.97	-0.4%
BRENT CRUDE OIL 1 M CSO	9C	600	0	-	28.57	2000.0%	1,679	0	-
BRENT CRUDE OIL 6 M CSO	9L	0	0	-	0	-	4	0	-
BRENT OIL LAST DAY	BE	3,244	50	6388.2%	4,974.1	-34.8%	1,861	152.51	1120.4%
BRENT OIL LAST DAY	BZO	4,928	3,724.05	32.3%	8,623.14	-42.9%	7,807	2,154.32	262.4%
BRENT OIL LAST DAY	OS	5	1	400.0%	0	-	5	15.59	-67.2%
COAL API2 INDEX	CLA	3	1.25	100.0%	7.86	-68.2%	26	40.77	-35.4%
COAL API2 INDEX	CQA	0	2.5	-100.0%	8.33	-100.0%	15	3.29	341.3%
COAL API2 INDEX	MTC	0	0	-	0	-	0	0.2	-100.0%
COAL API4 INDEX	RLA	0	0	-	0	-	0	0	-
COAL API4 INDEX	RQA	0	0	-	0	-	0	0.12	99.2%
COAL SWAP	CPF	0	0	-	0	-	0	0.72	-100.0%
COAL SWAP	RPF	0	0	-	0	-	0	2.41	-100.0%
CRUDE OIL 1MO	WA	8,975	5,205.9	72.4%	9,678.33	-7.3%	9,566	8,303.97	15.2%
CRUDE OIL APO	AO	2,397	4,744.65	-49.5%	2,528.67	-5.2%	2,122	2,550.25	-16.8%

NYMEX/COMEX Exchange ADV Report - Monthly

December 2018

Page 18 of 21

Commodity		ADV DEC 2018	ADV DEC 2017	% CHG	ADV NOV 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
Energy Options									
CRUDE OIL CALNDR STRIP	6F	0	0	-	0	-	1	0	-
CRUDE OIL OUTRIGHTS	AH	0	0	-	0	-	32	0	-
CRUDE OIL OUTRIGHTS	DBP	0	0	-	0	-	0	0	-
CRUDE OIL OUTRIGHTS	WCI	0	0	-	0	-	2	46.89	-96.7%
CRUDE OIL PHY	CD	25	8.75	185.7%	0	-	85	125.24	-32.4%
CRUDE OIL PHY	LC	1,003	469.35	113.6%	1,179.24	-15.0%	591	1,028	-42.5%
CRUDE OIL PHY	LO	161,351	116,792.55	38.2%	278,740.48	-42.1%	176,675	170,920.5	3.4%
CRUDE OIL PHY	LO1	968	224.05	331.9%	539.33	79.4%	750	654.34	14.6%
CRUDE OIL PHY	LO2	37	417.1	-91.2%	964.19	-96.2%	713	630.97	12.9%
CRUDE OIL PHY	LO3	1,294	388.1	233.3%	1,353.62	-4.4%	639	413.56	54.5%
CRUDE OIL PHY	LO4	923	590.85	56.3%	1,148.19	-19.6%	802	762.42	5.2%
CRUDE OIL PHY	LO5	0	402.95	-100.0%	1,044.29	-100.0%	284	245.21	15.9%
ELEC MISO PEAK	9T	0	0	-	0	-	0	3.27	-100.0%
ETHANOL	CE1	0	0	-	0	-	1	0.3	265.2%
ETHANOL	CE3	0	0	-	0	-	1	1.29	-54.0%
ETHANOL SWAP	CVR	186	301.3	-38.4%	150.24	23.5%	278	292.15	-4.8%
ETHANOL SWAP	GVR	20	25.5	-20.6%	17.86	13.4%	15	8.64	79.1%
EUROPEAN JET KEROSENE NWE (PLATTS)	30	0	0	-	0	-	0	0	-
GASOLINE	GCE	0	0	-	0	-	0	0	-
HEATING OIL CRACK OPTIONS	CH	0	0	-	0	-	0	0.4	-100.0%
HEATING OIL CRK SPD AVG PRICE OPTION	3W	0	0	-	0	-	0	0	-
HEATING OIL PHY	LB	52	4.25	1132.9%	33.29	57.4%	11	11.21	-2.0%
HEATING OIL PHY	OH	1,869	1,912.65	-2.3%	2,593.86	-27.9%	1,535	1,574.02	-2.5%
HENRY HUB FINANCIAL LAST	E7	225	319.65	-29.7%	193.95	15.9%	208	190.4	9.4%
HO 1 MONTH CLNDR OPTIONS	FA	0	0	-	119.05	-100.0%	10	6.77	52.3%
LLS CRUDE OIL	WJO	0	0	-	0	-	0	27.49	-98.6%
LLS CRUDE OIL	YVO	0	0	-	0	-	0	14.94	-100.0%
MCCLOSKEY ARA ARGS COAL	MTO	0	0	-	0	-	1	6.37	-81.9%
MCCLOSKEY RCH BAY COAL	MFO	0	13.75	-100.0%	3.33	-100.0%	9	1.1	676.9%
NATURAL GAS	G10	0	0	-	0	-	0	1.79	-100.0%
NATURAL GAS 1 M CSO FIN	G4	3,927	2,801.1	40.2%	5,864.29	-33.0%	2,265	1,940.3	16.7%
NATURAL GAS 2 M CSO FIN	G2	0	170	-100.0%	1.43	-100.0%	6	59.56	-90.5%
NATURAL GAS 3 M CSO FIN	G3	0	670	-100.0%	0	-	176	636.75	-72.4%
NATURAL GAS 5 M CSO FIN	G5	0	0	-	0	-	10	16.14	-37.3%
NATURAL GAS 6 M CSO FIN	G6	318	652.5	-51.3%	576.19	-44.9%	408	280.16	45.7%
NATURAL GAS OPTION ON CALENDAR STR	6J	149	100	49.0%	317.14	-53.0%	148	58.45	153.1%

NYMEX/COMEX Exchange ADV Report - Monthly

December 2018

Page 19 of 21

Commodity		ADV DEC 2018	ADV DEC 2017	% CHG	ADV NOV 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
Energy Options									
NATURAL GAS PHY	KD	52	3,083.65	-98.3%	287.62	-81.8%	804	2,061.71	-61.0%
NATURAL GAS PHY	LN	86,243	169,092.95	-49.0%	141,337.1	-39.0%	90,686	112,762.67	-19.6%
NATURAL GAS PHY	ON	7,408	18,114.65	-59.1%	20,019.05	-63.0%	9,457	10,305.77	-8.2%
NATURAL GAS WINTER STRIP	6I	0	0	-	0	-	11	0	-
N ROCKIES PIPE SWAP	ZR	0	0	-	73.33	-100.0%	14	16.06	-12.1%
NY HARBOR HEAT OIL SWP	AT	184	75.6	143.4%	286.14	-35.7%	142	146.98	-3.4%
NYISO ZONE G 5MW PEAK OPTIONS	9U	0	0	-	0	-	0	79	-100.0%
NYMEX EUROPEAN GASOIL APO	F7	0	0	-	0	-	0	0	-
PANHANDLE PIPE SWAP	PU	0	0	-	0	-	0	34.42	-100.0%
PETROCHEMICALS	4H	0	9.75	-100.0%	0.48	-100.0%	26	34.35	-23.0%
PETROCHEMICALS	4J	0	7.5	-100.0%	0	-	5	12.33	-56.6%
PETROCHEMICALS	4K	0	0	-	0	-	13	4.78	173.9%
PETROCHEMICALS	CPR	0	0	-	0	-	0	0.07	-100.0%
PETRO OUTRIGHT EURO	8H	0	0	-	0	-	0	1.2	-100.0%
PETRO OUTRIGHT NA	DAP	12	0	-	17.14	-30.0%	3	0.29	995.5%
PJM WES HUB PEAK CAL MTH	6OA	3	7	-57.1%	3.81	-21.3%	3	16.33	-79.1%
PJM WES HUB PEAK CAL MTH	JOA	0	0	-	0	-	3	0	-
PJM WES HUB PEAK LMP 50MW	PMA	0	22	-100.0%	4	-100.0%	30	56.8	-47.7%
RBOB 1MO CAL SPD OPTIONS	ZA	0	2.5	-100.0%	0	-	3	26.92	-89.7%
RBOB CALENDAR SWAP	RA	11	0	-	3.57	215.0%	5	11.41	-53.1%
RBOB CRACK	RX	0	0	-	0	-	0	0	-
RBOB PHY	OB	440	526.95	-16.4%	698.86	-37.0%	575	1,168.51	-50.8%
RBOB PHY	RF	0	0	-	0	-	0	5.32	-90.7%
ROTTERDAM 3.5%FUEL OIL CL	Q6	0	0	-	0	-	0	0	-
SAN JUAN PIPE SWAP	PJ	0	0	-	0	-	9	12.91	-33.9%
SHORT TERM	C15	0	0	-	0	-	2	0	-
SHORT TERM	U11	0	80.25	-100.0%	0	-	5	30.18	-83.7%
SHORT TERM	U12	0	6.8	-100.0%	38.1	-100.0%	8	18.88	-60.1%
SHORT TERM	U13	0	58	-100.0%	4.76	-100.0%	2	20.39	-90.3%
SHORT TERM	U14	0	17.5	-100.0%	0	-	3	15.86	-78.4%
SHORT TERM	U15	0	9.5	-100.0%	0	-	3	21.57	-85.3%
SHORT TERM	U22	0	27.25	-100.0%	0	-	5	14.05	-64.1%
SHORT TERM	U23	0	0	-	0	-	4	6.66	-46.5%
SHORT TERM	U24	0	0	-	0	-	3	12.85	-72.9%
SHORT TERM	U25	0	0	-	0	-	1	3.75	-83.9%
SHORT TERM	U26	0	0	-	9.52	-100.0%	2	1.16	104.7%

NYMEX/COMEX Exchange ADV Report - Monthly

December 2018

Page 20 of 21

Commodity		ADV DEC 2018	ADV DEC 2017	% CHG	ADV NOV 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
Energy Options									
SHORT TERM NATURAL GAS	U01	0	0	-	0	-	2	14.8	-85.3%
SHORT TERM NATURAL GAS	U02	0	15	-100.0%	0	-	11	16.96	-34.5%
SHORT TERM NATURAL GAS	U03	0	0	-	35.71	-100.0%	9	9.06	-0.1%
SHORT TERM NATURAL GAS	U04	0	72.15	-100.0%	0	-	8	10.41	-24.7%
SHORT TERM NATURAL GAS	U05	0	53.4	-100.0%	9.52	-100.0%	6	44.65	-85.5%
SHORT TERM NATURAL GAS	U06	0	23.9	-100.0%	0	-	6	36.45	-83.7%
SHORT TERM NATURAL GAS	U07	0	8.75	-100.0%	11.9	-100.0%	7	14.64	-49.8%
SHORT TERM NATURAL GAS	U08	0	20.25	-100.0%	0	-	6	22.46	-73.9%
SHORT TERM NATURAL GAS	U09	0	0	-	4.76	-100.0%	6	20.77	-68.8%
SHORT TERM NATURAL GAS	U10	0	0	-	0	-	5	24.02	-79.3%
SHORT TERM NATURAL GAS	U16	0	0	-	0	-	3	27.93	-90.1%
SHORT TERM NATURAL GAS	U17	0	0	-	0	-	9	20.51	-55.6%
SHORT TERM NATURAL GAS	U18	0	43.4	-100.0%	0	-	6	10.22	-37.0%
SHORT TERM NATURAL GAS	U19	0	39.25	-100.0%	0	-	1	21.29	-93.5%
SHORT TERM NATURAL GAS	U20	0	16.25	-100.0%	0	-	6	17.25	-67.2%
SHORT TERM NATURAL GAS	U21	13	21.5	-41.9%	0	-	2	14.51	-83.2%
SHORT TERM NATURAL GAS	U27	5	7.5	-33.3%	0	-	2	8.05	-74.1%
SHORT TERM NATURAL GAS	U28	0	0	-	0	-	0	12.97	-96.9%
SHORT TERM NATURAL GAS	U29	0	7.5	-100.0%	2.38	-100.0%	2	3.61	-43.9%
SHORT TERM NATURAL GAS	U30	0	0	-	0	-	0	18.9	-97.9%
SHORT TERM NATURAL GAS	U31	23	0	-	0	-	2	24.9	-92.4%
SINGAPORE GASOIL CALENDAR	M2	0	0	-	0	-	0	0	-
SINGAPORE JET FUEL CALENDAR	N2	0	0	-	0	-	0	0	-
SOCAL PIPE SWAP	ZN	0	0	-	0	-	0	0	-
WTI-BRENT BULLET SWAP	BV	879	2,948.8	-70.2%	1,496.9	-41.3%	3,398	2,249.11	51.1%
WTI CRUDE OIL 1 M CSO FI	7A	1,345	3,521.5	-61.8%	6,863.81	-80.4%	3,547	3,072.69	15.4%

Ag Products Futures

COCOA TAS	CJ	0	0.25	-100.0%	0	-	0	0.37	-94.6%
COFFEE	KT	0	0	-	0	-	0	0.16	-100.0%
COTTON	TT	0	0.05	0.0%	0.05	5.0%	0	0.08	9.5%
SUGAR 11	YO	0	0	-	0	-	0	0.17	37.6%

NYMEX/COMEX Exchange ADV Report - Monthly

December 2018

Page 21 of 21

Commodity	ADV DEC 2018	ADV DEC 2017	% CHG	ADV NOV 2018	% CHG	ADV Y.T.D 2018	ADV Y.T.D 2017	% CHG
TOTAL FUTURES GROUP								
Ag Products Futures	0	0.3	-83.3%	0.05	5.0%	0	0.78	-56.6%
Energy Futures	2,050,879	2,041,545.85	0.5%	2,634,881.38	-22.2%	2,243,033	2,250,738.82	-0.3%
Metals Futures	380,123	484,722.75	-21.6%	568,699.48	-33.2%	580,521	521,143.39	11.4%
TOTAL FUTURES	2,431,003	2,526,268.9	-3.8%	3,203,580.91	-24.1%	2,823,554.65	2,771,882.99	1.9%
TOTAL OPTIONS GROUP								
Energy Options	289,265	337,934.75	-14.4%	491,911.05	-41.2%	317,701	325,834.73	-2.5%
Metals Options	58,865	45,987.95	28.0%	55,110.24	6.8%	57,886	46,933.61	23.3%
TOTAL OPTIONS	348,130	383,922.7	-9.3%	547,021.29	-36.4%	375,586.98	372,768.34	0.8%
TOTAL COMBINED								
Metals	438,988	530,710.7	-17.3%	623,809.71	-29.6%	638,407	568,077	12.4%
Energy	2,340,145	2,379,480.6	-1.7%	3,126,792.43	-25.2%	2,560,734	2,576,573.55	-0.6%
Ag Products	0	0.3	-83.3%	0.05	5.0%	0	0.78	-56.6%
GRAND TOTAL	2,779,133	2,910,191.6	-4.5%	3,750,602.19	-25.9%	3,199,141.62	3,144,651.33	1.7%