

## NYMEX/COMEX Exchange ADV Report - Monthly

November 2019

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Commodity		ADV NOV 2019	ADV NOV 2018	% CHG	ADV OCT 2019	% CHG	ADV Y.T.D 2019	ADV Y.T.D 2018	% CHG
<b>Metals Futures</b>									
COMEX GOLD	GC	446,371	302,440	47.6%	348,528.26	28.1%	351,145	328,317.16	7.0%
NYMEX HOT ROLLED STEEL	HR	520	570.76	-8.9%	635.48	-18.2%	713	484.33	47.2%
NYMEX PLATINUM	PL	19,984	17,754.71	12.6%	17,752.57	12.6%	22,832	21,403.59	6.7%
PALLADIUM	PA	6,564	7,052.86	-6.9%	3,944.52	66.4%	5,124	5,857	-12.5%
URANIUM	UX	0	103.29	-100.0%	0	-	46	27.79	65.1%
COMEX SILVER	SI	116,714	109,482.14	6.6%	78,718.09	48.3%	97,863	97,786.34	0.1%
COMEX E-Mini GOLD	QO	1,141	453.67	151.4%	1,145.91	-0.5%	978	395.82	147.0%
COMEX E-Mini SILVER	QI	124	49.86	149.1%	159.26	-22.0%	206	54.11	280.3%
COMEX COPPER	HG	105,833	121,272.52	-12.7%	72,780.7	45.4%	96,724	134,930.89	-28.3%
COMEX MINY COPPER	QC	25	16.05	54.9%	23.65	5.1%	31	21.26	45.1%
ALUMINUM	A38	0	0	-	0	-	0	0.31	-69.3%
ALUMINUM	AEP	373	183.19	103.4%	275.65	35.2%	127	80.07	58.6%
ALUMINUM	ALA	12	11.43	5.9%	15.65	-22.7%	5	24.81	-79.7%
ALUMINUM	ALI	148	0	-	141	5.1%	56	0	-
ALUMINUM	AUP	592	386.95	52.9%	442.3	33.7%	322	411.59	-21.7%
ALUMINUM	CUP	0	0	-	0	-	0	0.88	-100.0%
ALUMINUM	EDP	229	76.43	199.4%	221.22	3.4%	114	73.69	54.7%
ALUMINUM	MJP	12	25.71	-53.3%	30	-60.0%	45	53.34	-14.7%
COPPER	HGS	29	67.48	-56.9%	99.13	-70.6%	43	70.1	-38.7%
E-MICRO GOLD	MGC	34,602	7,702	349.3%	35,347.57	-2.1%	22,489	7,093.17	217.0%
FERROUS PRODUCTS	BUS	58	89.9	-35.6%	31.87	81.7%	52	81.79	-36.0%
GOLD	SGC	221	0	-	416.7	-47.0%	61	0	-
GOLD	SGU	763	0	-	264.61	188.4%	92	0	-
Gold Kilo	GCK	0	0	-	0	-	0	0.59	-100.0%
IRON ORE 62 CHINA PLATTS FUTURES	PIO	0	0	-	0	-	0	0	-
IRON ORE 62 CHINA TSI FUTURES	TIO	96	228.24	-58.0%	85.26	12.5%	228	183.39	24.1%
LNDN ZINC	ZNC	0	139.57	-100.0%	0	-	5	58.08	-90.8%
SILVER	SIL	2,727	592.71	360.1%	1,748.78	55.9%	1,414	387.02	265.4%
<b>Metals Options</b>									
COMEX COPPER	HX	2,850	1,951.29	46.0%	2,418.22	17.8%	2,819	1,406.22	100.5%
COMEX GOLD	OG	47,536	42,331.76	12.3%	51,929.7	-8.5%	61,414	46,467.03	32.2%
COMEX SILVER	SO	8,035	8,047.71	-0.2%	7,418.78	8.3%	8,867	7,467.46	18.7%
COPPER	H1E	9	5.48	68.9%	3.96	133.8%	3	0.7	299.3%

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COPPER	H2E	7	0.57	1125.1%	7.39	-5.3%	4	0.64	536.6%
COPPER	H3E	2	0.29	565.0%	15.57	-87.8%	4	0.49	808.3%
COPPER	H4E	3	0.1	2578.6%	7.96	-68.0%	2	0.74	111.4%
COPPER	H5E	25	0	-	0	-	3	0.05	4939.4%
GOLD	OG1	1,134	443.52	155.6%	2,839.48	-60.1%	1,960	528.19	271.1%
GOLD	OG2	2,062	513.81	301.4%	2,405.91	-14.3%	1,798	486.63	269.4%
GOLD	OG3	2,367	811	191.8%	1,461	62.0%	1,485	543.26	173.3%
GOLD	OG4	1,096	317.29	245.3%	912	20.1%	977	338.29	188.9%
GOLD	OG5	1,054	325.38	223.8%	0	-	361	141.64	155.0%
HOT ROLLED COIL STEEL CALL OPTION	HRO	0	14.29	-100.0%	6.52	-100.0%	5	1.29	251.5%
HOT ROLLED COIL STEEL PUT OPTION	HRO	8	0	-	0	-	1	0	-
IRON ORE 62 CHINA TSI CALL OPTION	ICT	0	0	-	1.3	-100.0%	30	0.86	3329.7%
IRON ORE 62 CHINA TSI PUT OPTION	ICT	0	0	-	0	-	16	5.52	182.5%
NYMEX PLATINUM	PO	104	129.57	-20.0%	148.65	-30.2%	161	184.56	-12.6%
PALLADIUM	PAO	65	45.38	44.1%	69.91	-6.5%	59	123.66	-52.1%
SILVER	SO1	77	27.24	181.8%	152.91	-49.8%	94	23.92	293.8%
SILVER	SO2	155	43.52	256.7%	143.52	8.2%	90	22.06	309.3%
SILVER	SO3	115	35.57	222.7%	118.65	-3.2%	78	29.19	167.9%
SILVER	SO4	36	35.33	2.9%	34.57	5.2%	31	16.89	81.6%
SILVER	SO5	69	31.14	122.5%	0	-	23	11.84	98.2%

### Energy Futures

CRUDE OIL PHY	CL	953,307	1,312,883.86	-27.4%	1,012,973.61	-5.9%	1,178,087	1,222,863.42	-3.7%
CRUDE OIL	WS	0	0	-	0	-	72	67.41	7.2%
MINY WTI CRUDE OIL	QM	17,948	29,316.9	-38.8%	19,872.7	-9.7%	22,344	17,564.1	27.2%
BRENT OIL LAST DAY	BZ	87,079	108,108.05	-19.5%	99,843.04	-12.8%	103,185	86,917.53	18.7%
HEATING OIL PHY	HO	198,689	215,084.81	-7.6%	221,605.35	-10.3%	171,793	185,512.43	-7.4%
HTG OIL	BH	0	1.14	-100.0%	0	-	0	0.52	-19.6%
MINY HTG OIL	QH	0	0.19	5.0%	0.13	53.4%	0	0.19	-17.9%
RBOB PHY	RB	179,285	188,274.38	-4.8%	166,629.43	7.6%	200,926	199,177.62	0.9%
MINY RBOB GAS	QU	0	0.29	5.0%	0.13	130.1%	0	0.19	61.2%
NATURAL GAS	HP	4,843	10,379.52	-53.3%	4,966.13	-2.5%	5,392	5,795.31	-7.0%
LTD NAT GAS	HH	14,579	30,293.9	-51.9%	11,813.78	23.4%	14,341	18,037.74	-20.5%

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MINY NATURAL GAS	QG	2,906	5,361.29	-45.8%	2,471.09	17.6%	1,669	1,670.09	-0.1%
PJM MONTHLY	JM	0	0	-	0	-	0	0	-
NATURAL GAS PHY	NG	498,025	677,111.71	-26.4%	477,006.57	4.4%	407,174	458,641.4	-11.2%
RBOB GAS	RT	0	0	-	0.52	-100.0%	0	62.01	-99.4%
3.5% FUEL OIL CID MED SWA	7D	0	0	-	0	-	0	2.64	-84.1%
3.5% FUEL OIL CIF BALMO S	8D	0	0	-	0	-	0	0.41	-78.9%
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	-
ALGONQUIN CITYGATES BASIS	B4	0	0	-	0	-	0	0	-
ANR OKLAHOMA	NE	0	0	-	0	-	0	0	-
ARGUS LLS VS. WTI (ARG) T	E5	197	867.67	-77.3%	299.17	-34.2%	378	1,038.86	-63.6%
ARGUS PROPAN FAR EST INDE	7E	260	266.43	-2.6%	245.48	5.7%	292	282.41	3.4%
ARGUS PROPAN(SAUDI ARAMCO	9N	137	129.81	5.8%	112.7	21.9%	142	134.25	5.4%
AUSTRIALIAN COKE COAL	ACT	0	0	-	0	-	0	0.09	-100.0%
AUSTRIALIAN COKE COAL	ALW	0	0	-	0	-	0	0	-
BRENT BALMO SWAP	J9	0	0	-	8.57	-100.0%	8	1.23	590.7%
BRENT CALENDAR SWAP	CY	382	101.19	277.4%	629.26	-39.3%	354	164.81	114.8%
BRENT CFD SWAP	6W	0	0	-	0	-	0	1.29	-100.0%
BRENT FINANCIAL FUTURES	BB	0	47.62	-100.0%	0	-	30	89.93	-66.3%
BRENT FINANCIAL FUTURES	MBC	3	0	-	4.35	-33.3%	7	0.55	1117.1%
BRENT FINANCIAL FUTURES	MDB	0	0	-	0	-	0	0.97	-100.0%
BRENT OIL LAST DAY	BZL	0	0	-	0	-	0	0	-
BRENT OIL LAST DAY	BZS	0	0	-	0	-	0	0	-
CANADIAN LIGHT SWEET OIL	CIL	0	0	-	0	-	0	0	-
CENTERPOINT BASIS SWAP	PW	0	0	-	0	-	0	0.16	-100.0%
CHICAGO ETHANOL SWAP	CU	3,778	4,143.19	-8.8%	3,735.61	1.1%	4,794	4,544.82	5.5%
CHICAGO ULSD PL VS HO SPR	5C	33	44.38	-26.7%	6.13	431.0%	26	21.58	20.7%
CHICAGO UNL GAS PL VS RBO	3C	0	0	-	0	-	6	4.09	44.8%
CIG BASIS	CI	0	0	-	0	-	0	0.95	-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	0	-
CIN HUB 5MW D AH PK	H5	0	25.62	-100.0%	8.7	-100.0%	21	53.34	-60.5%
CIN HUB 5MW REAL TIME O P	H4	0	0	-	0	-	17	0	-
CIN HUB 5MW REAL TIME PK	H3	0	0	-	0	-	1	6.49	-78.3%

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COAL SWAP	ACM	0	2.86	-100.0%	0	-	0	2.46	-100.0%
COLUMB GULF MAINLINE NG B	5Z	0	0	-	0	-	2	0	-
CONWAY NATURAL GASOLINE (OPIS) SWA	8L	11	43.62	-74.6%	3.04	264.7%	11	11.44	-2.2%
CONWAY NORMAL BUTANE (OPIS) SWAP	8M	34	3.33	912.5%	19.57	72.5%	23	12.2	92.2%
CONWAY PROPANE 5 DECIMALS SWAP	8K	645	653.71	-1.3%	549.39	17.4%	697	754.32	-7.7%
CRUDE OIL	LPS	165	171.43	-3.8%	167.39	-1.4%	143	211.14	-32.1%
CRUDE OIL OUTRIGHTS	42	14	9.14	55.9%	11.3	26.1%	18	11.54	59.4%
CRUDE OIL OUTRIGHTS	CC5	48	1.43	3259.9%	22.17	116.5%	21	1.42	1355.1%
CRUDE OIL OUTRIGHTS	CPD	0	0	-	0	-	0	12.74	-100.0%
CRUDE OIL OUTRIGHTS	CSW	2	1.43	40.0%	2	0.0%	14	9.98	42.2%
CRUDE OIL OUTRIGHTS	DBL	0	0	-	14.35	-100.0%	3	0.43	640.6%
CRUDE OIL OUTRIGHTS	GSW	1	0	-	0.22	245.0%	1	0.45	183.1%
CRUDE OIL OUTRIGHTS	HTT	3,280	1,811.76	81.1%	2,697.22	21.6%	2,777	2,282.31	21.7%
CRUDE OIL OUTRIGHTS	LSW	65	0	-	0.65	9904.6%	19	1.44	1245.5%
CRUDE OIL OUTRIGHTS	SSW	0	0	-	0	-	0	0	-
CRUDE OIL OUTRIGHTS	UMD	0	0	-	0	-	0	20.69	-100.0%
CRUDE OIL OUTRIGHTS	UNS	0	0	-	0	-	0	32.56	-100.0%
CRUDE OIL OUTRIGHTS	WCC	0	0	-	0	-	0	0	-
CRUDE OIL OUTRIGHTS	WCW	139	102.95	34.5%	142.52	-2.8%	183	280.25	-34.8%
CRUDE OIL PHY	CLL	0	0	-	0	-	0	0	-
CRUDE OIL PHY	HCL	332	480.71	-31.0%	297.09	11.6%	760	43.51	1645.9%
CRUDE OIL SPRDS	38	8	0	-	0	-	1	8.86	-92.7%
CRUDE OIL SPRDS	HIL	0	0	-	7.83	-100.0%	4	0	-
CRUDE OIL SPRDS	WTT	643	510.38	26.0%	874.3	-26.5%	990	1,789.99	-44.7%
CRUDE OIL TRADE AT MARKER SINGAPOR	CLS	0	0	-	0	-	0	0	-
DAILY PJM	AOR	0	0	-	0	-	0	0	-
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	-

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DAILY PJM	ZGO	0	0	-	0	-	0	0	-
DAILY PJM	ZJO	0	0	-	0	-	0	0	-
DATED TO FRONTLINE BRENT	FY	0	0	-	0	-	4	14.48	-70.1%
DIESEL 10P BRG FOB RDM VS	7X	0	0	-	0	-	0	0.02	-100.0%
DOMINION TRAN INC - APP I	IH	0	0	-	0	-	0	0	-
DOMINION TRANSMISSION INC	PG	0	0	-	0	-	0	0.54	-100.0%
DUBAI CRUDE OIL BALMO	BI	0	0	-	0	-	0	0.54	-100.0%
DUBAI CRUDE OIL CALENDAR	DC	12	728.81	-98.4%	0	-	78	430.2	-81.8%
DUTCH TTF NATURAL GAS CAL MONTH FUT	TTF	1,260	175.48	618.2%	925.74	36.1%	549	77.94	604.5%
EASTERN RAIL DELIVERY CSX	QX	0	0	-	0	-	0	1.06	-100.0%
EAST/WEST FUEL OIL SPREAD	EW	0	0	-	0	-	0	0.81	-89.3%
EIA FLAT TAX ONHWAY DIESE	A5	2	14.9	-87.9%	1.26	42.8%	15	13.66	8.4%
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	-	0	84.48	-100.0%
ELEC FINSETTLED	47	0	0	-	0	-	0	0	-
ELEC MISO PEAK	4L	0	0	-	0	-	0	0	-
ELEC MISO PEAK	55	0	0	-	0	-	0	0	-
ELEC NYISO OFF-PEAK	4M	0	0	-	0	-	0	0	-
ELEC NYISO OFF-PEAK	58	0	0	-	0	-	0	0	-
ELECTRICITY OFF PEAK	46	0	0	-	0	-	0	0	-
ELECTRICITY OFF PEAK	4P	0	2,637.14	-100.0%	0	-	0	238.71	-100.0%
ERCOT HOUSTON Z MCPE 5MW PEAK SWA	I1	0	0	-	0	-	0	8.41	-100.0%
ERCOT NORTH ZMCPE 5MW OFFPEAK	I8	0	0	-	0	-	0	0	-
ERCOT NORTH ZMCPE 5MW OFFPEAK SWA	I6	0	0	-	0	-	0	84.48	-100.0%
ERCOT NORTH ZMCPE 5MW PEAK	I5	0	0	-	0	-	0	21.77	-100.0%
ETHANOL	MTH	0	0	-	0.43	-100.0%	0	0	-
ETHANOL	Z1B	0	0	-	0	-	0	0	-
ETHANOL SWAP	MT2	4	12.86	-72.8%	5.22	-32.9%	4	2.89	43.9%
ETHANOL T2 FOB ROTT INCL DUTY SWAP	Z1	277	307.67	-10.0%	269.7	2.7%	178	162.98	8.9%
EURO 1% FUEL OIL NEW BALM	KX	0	0	-	0	-	0	0.14	-90.9%
EURO 3.5% FUEL OIL RDAM B	KR	5	11.19	-57.6%	0.57	740.4%	2	24.46	-90.0%
EURO 3.5% FUEL OIL SPREAD	FK	1	0	-	1.09	-54.0%	1	3.62	-78.2%
EURO-DENOMINATED PETRO PROD	NCP	0	0	-	0	-	0	2.76	-100.0%
EURO GASOIL 10PPM VS ICE	ET	0	0	-	0	-	0	1.59	-100.0%

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EUROPE 1% FUEL OIL NWE CA	UF	0	5.71	-100.0%	5.13	-100.0%	3	2.35	18.5%
EUROPE 1% FUEL OIL RDAM C	UH	0	0	-	0	-	0	0.01	-100.0%
EUROPE 3.5% FUEL OIL MED	UI	1	0.19	293.7%	0	-	2	4.27	-59.5%
EUROPE 3.5% FUEL OIL RDAM	UV	58	152.62	-62.3%	26.96	113.7%	46	332.31	-86.2%
EUROPEAN GASOIL (ICE)	7F	4	59.71	-93.0%	6.09	-31.0%	5	29.87	-82.2%
EUROPEAN NAPHTHA BALMO	KZ	1	8.76	-91.4%	1.52	-50.7%	6	13.1	-52.1%
EUROPEAN NAPHTHA CRACK SPR	EN	155	405.86	-61.8%	59.7	159.7%	176	445.65	-60.6%
EUROPE DATED BRENT SWAP	UB	0	120	-100.0%	0	-	7	20.34	-65.3%
EUROPE JET KERO NWE CALSW	UJ	0	0	-	0	-	0	0.17	-79.4%
EUROPE NAPHTHA CALSWAP	UN	28	124.48	-77.2%	11.65	143.3%	74	164.25	-55.0%
EURO PROPANE CIF ARA SWA	PS	97	97.67	-0.6%	79.13	22.6%	91	87.58	3.6%
FREIGHT MARKETS	ACB	0	0	-	26.09	-100.0%	4	0	-
FREIGHT MARKETS	FLP	1	16.05	-92.2%	3.57	-64.9%	7	9.42	-30.3%
FREIGHT MARKETS	FRC	0	0	-	14.78	-100.0%	7	2.59	176.5%
FREIGHT MARKETS	FRS	1	0	-	0	-	0	0	-
FREIGHT MARKETS	T2D	20	57.86	-66.3%	49.78	-60.8%	26	20.14	30.9%
FREIGHT MARKETS	TC6	0	0	-	0	-	0	1.03	-100.0%
FREIGHT MARKETS	TD3	0	0	-	0	-	1	0.13	368.8%
FREIGHT MARKETS	TD8	0	0	-	0	-	0	0.65	-59.8%
FREIGHT MARKETS	USC	0	0	-	0.43	-100.0%	1	0	-
FUEL OIL CRACK VS ICE	FO	102	68.67	49.2%	73.91	38.6%	83	161.65	-48.7%
FUEL OIL NWE CRACK VS ICE	FI	0	0	-	0	-	0	0.74	-91.2%
FUEL OIL (PLATS) CAR CM	1W	0	0	-	0	-	0	0.66	-96.1%
FUEL OIL (PLATS) CAR CN	1X	0	0	-	0	-	0	0.52	-100.0%
FUELOIL SWAP:CARGOES VS.B	FS	3	0.71	285.0%	3.91	-29.7%	7	9.18	-25.3%
GAS EURO-BOB OXY NWE BARGES	7H	95	253.24	-62.7%	58.91	60.4%	217	351.65	-38.4%
GAS EURO-BOB OXY NWE BARGES CRK	7K	430	608.57	-29.3%	229.83	87.2%	374	854.1	-56.3%
GASOIL 0.1CIF MED VS ICE	Z5	0	0	-	0	-	0	0.04	-100.0%
GASOIL 0.1 CIF NWE VS ISE	TU	0	0	-	0	-	0	0	-
GASOIL 0.1 RDAM BRGS VS I	WQ	0	0	-	0	-	0	0.04	110.9%
GASOIL 0.1 ROTTERDAM BARG	VL	0	1.24	-100.0%	0.04	-100.0%	1	6.45	-90.7%
GASOIL 10PPM VS ICE SWAP	TP	0	0	-	0	-	0	0.05	226.5%
GASOIL CALENDAR SWAP	GX	6	0.57	967.6%	0.78	679.5%	1	0.28	318.5%
GASOIL CRACK SPREAD CALEN	GZ	184	28.76	538.3%	51.65	255.5%	46	164.25	-72.3%
GASOIL MINI CALENDAR SWAP	QA	72	38.24	87.4%	48.96	46.4%	23	12.19	87.7%
GERMAN POWER BASELOAD CAL MONTH F	DEB	41	65.57	-38.2%	62.61	-35.2%	104	19.31	437.1%

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<b>Energy Futures</b>									
GROUP THREE ULSD (PLATTS)	A7	0	2.14	-100.0%	0	-	0	1.08	-100.0%
GROUP THREE UNLEAD GAS (P	A9	0	0	-	0	-	1	1.83	-29.1%
GRP THREE ULSD(PLT)VS HEA	A6	51	182.19	-72.1%	123.96	-59.1%	158	169.22	-6.7%
GRP THREE UNL GS (PLT) VS	A8	59	82.62	-28.3%	123.7	-52.1%	118	100.61	17.5%
GULF COAST 3% FUEL OIL BA	VZ	15	33.48	-54.6%	30.17	-49.6%	38	58.63	-34.8%
GULF COAST JET FUEL CLNDR	GE	0	9.86	-100.0%	0	-	1	6.04	-80.9%
GULF COAST JET VS NYM 2 H	ME	358	1,083.71	-67.0%	589.22	-39.2%	912	1,669.78	-45.4%
GULF COAST NO.6 FUEL OIL	MF	761	1,455.86	-47.7%	724.74	5.1%	1,044	2,490.74	-58.1%
GULF COAST NO.6 FUEL OIL	MG	35	39.52	-11.4%	34.57	1.3%	14	74.59	-81.8%
GULF COAST ULSD CALENDAR	LY	5	12.1	-60.3%	4	20.0%	17	15.4	7.3%
GULF COAST ULSD CRACK SPR	GY	0	11.43	-100.0%	0	-	2	7.13	-78.2%
HEATING OIL BALMO CLNDR S	1G	0	0	-	0	-	2	1.05	133.5%
HEATING OIL CRCK SPRD BAL	1H	0	0	-	0	-	0	0	-
HEATING OIL PHY	HOL	0	0	-	0	-	0	0	-
HENRY HUB BASIS SWAP	HB	248	0	-	26.09	850.7%	92	138.31	-33.7%
HENRY HUB FINANCIAL LAST	NBP	0	0	-	0	-	0	115.59	-100.0%
HENRY HUB FINANCIAL LAST	TTE	0	0	-	0	-	0	3.81	-100.0%
HENRY HUB INDEX SWAP FUTU	IN	248	0	-	26.09	850.7%	92	138.31	-33.7%
HENRY HUB SWAP	NN	4,443	7,969.76	-44.2%	2,145.26	107.1%	4,589	7,970.33	-42.4%
HOUSTON SHIP CHANNEL BASI	NH	0	0	-	0	-	3	0	-
ICE BRENT DUBAI SWAP	DB	394	185.24	112.6%	251.48	56.6%	273	449.6	-39.3%
IN DELIVERY MONTH EUA	6T	0	0	-	0	-	0	5.38	-100.0%
INDIANA MISO	FAD	0	0	-	0	-	0	0	-
INDIANA MISO	FTD	0	0	-	0	-	0	0	-
INDIANA MISO	PDD	0	0	-	0	-	0	0	-
INDIANA MISO	PTD	0	0	-	0	-	0	0	-
INDONESIAN COAL ICI4	ICI	6	9.76	-36.0%	2.83	121.2%	15	7.41	104.7%
ISO NEW ENGLAND OFF-PEAK	KI	0	0	-	0	-	0	0	-
ISO NEW ENGLAND PK LMP	NI	0	0	-	0	-	0	0	-
JAPAN C&F NAPHTHA CRACK S	JB	0	7.67	-100.0%	0	-	1	8.15	-89.6%
JAPAN C&F NAPHTHA SWAP	JA	10	52.62	-80.4%	10.65	-3.3%	44	95.75	-54.5%
JAPAN NAPHTHA BALMO SWAP	E6	0	0.95	-100.0%	0	-	1	2.71	-46.7%
JET AV FUEL (P) CAR FM ICE GAS SWAP	1V	0	0	-	0	-	0	0.02	-100.0%
JET CIF NWE VS ICE	JC	0	0	-	1.3	-100.0%	1	2.77	-59.0%
JET FUEL CRG CIF NEW VS I	6X	0	0	-	0	-	1	0	-
JET FUEL UP-DOWN BALMO CL	1M	89	255.71	-65.3%	191.09	-53.6%	188	282.62	-33.6%

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<b>Energy Futures</b>									
JKM LNG Futures	JKM	168	158.81	6.0%	174.35	-3.5%	90	67.58	32.9%
LA CARB DIESEL (OPIS) SWA	KL	0	5.95	-100.0%	1.09	-100.0%	2	13.34	-87.0%
LA CARBOB GASOLINE(OPIS)S	JL	0	19.52	-100.0%	0	-	12	23.75	-47.6%
LA JET (OPIS) SWAP	JS	14	33.33	-58.7%	59.78	-77.0%	56	91.29	-38.9%
LLS (ARGUS) CALENDAR SWAP	XA	0	0	-	0	-	0	2.62	-100.0%
LLS (ARGUS) VS WTI SWAP	WJ	62	133.33	-53.3%	68.3	-8.9%	87	256.16	-66.2%
LOS ANGELES CARB GASOLINE	MH	0	0.48	-100.0%	0	-	0	0.04	0.5%
MARS (ARGUS) VS WTI SWAP	YX	10	46.9	-78.7%	5.43	84.0%	64	95.99	-33.5%
MARS (ARGUS) VS WTI TRD M	YV	655	603.1	8.6%	1,070.96	-38.8%	862	948.13	-9.1%
MARS BLEND CRUDE OIL	MB	0	0	-	0	-	0	10	-100.0%
MCCLOSKEY ARA ARGS COAL	MTF	1,526	1,189.48	28.3%	1,630.3	-6.4%	1,459	1,132.07	28.9%
MCCLOSKEY RCH BAY COAL	MFF	77	100	-22.8%	124.26	-37.9%	108	139.27	-22.4%
MGF FUT	MGF	0	0.48	-100.0%	0.43	-100.0%	0	1.16	-96.3%
MGN1 SWAP FUT	MGN	1	5.71	-91.3%	0.43	15.0%	2	3.5	-37.0%
MICHIGAN BASIS	NF	0	0	-	0	-	0	0	-
MICHIGAN MISO	HMO	0	0	-	0	-	0	0	-
MICHIGAN MISO	HMW	0	0	-	0	-	0	0	-
MINI GAS EUROBOB OXY NWE ARGS BALM	MEB	4	17.24	-75.6%	0.87	383.0%	9	16.37	-45.0%
MINI RBOB V. EBOBARG NWE BRGS BALMO	MXR	0	0	-	3.91	-100.0%	17	14.58	16.1%
MINI RBOB V. EBOB(ARGUS) NWE BRGS	MXB	54	62.95	-14.9%	42.26	26.8%	88	86.52	2.0%
MJC FUT	MJC	0	2.38	-100.0%	0	-	1	6.29	-89.7%
MNC FUT	MNC	69	239.33	-71.1%	71.3	-2.9%	156	197.37	-21.1%
MONT BELVIEU ETHANE 5 DECIMAL	C0	591	402.19	46.9%	673.09	-12.2%	750	744.88	0.8%
MONT BELVIEU ETHANE OPIS BALMO	8C	6	3.81	44.4%	1.3	321.7%	7	7.28	-10.6%
MONT BELVIEU LDH PROPANE 5 DECIMAL	B0	6,769	6,503.86	4.1%	6,253.09	8.3%	6,873	5,959.01	15.3%
MONT BELVIEU LDH PROPANE OPIS BALM	8O	88	89.1	-1.0%	83.26	5.9%	132	116.46	13.6%
MONT BELVIEU NATURAL GASOLINE 5 DEC	7Q	724	374.19	93.6%	448.48	61.5%	427	396.32	7.8%
MONT BELVIEU NATURAL GASOLINE BALM	R0	34	1.9	1698.1%	32.48	5.5%	31	15.63	98.2%
MONT BELVIEU NORMAL BUTANE 5 DECIM	D0	2,851	1,566.81	82.0%	2,091.78	36.3%	2,292	1,723.81	33.0%
MONT BELVIEU NORMAL BUTANE BALMO	8J	46	43.81	4.5%	60.65	-24.5%	60	51.68	16.5%
NAT GAS BASIS SWAP	TZ6	0	0	-	0	-	0	0	-
NATURAL GAS	XIC	0	0	-	0	-	0	0	-
NATURAL GAS PEN SWP	NP	1,683	2,601.52	-35.3%	875.35	92.2%	1,426	1,681.85	-15.2%
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	-	310	588.1	-47.3%

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<b>Energy Futures</b>									
NEPOOL INTR HUB 5MW D AH	U6	0	0	-	9.57	-100.0%	1	54.79	-98.3%
NEPOOL NE MASS 5MW D AH O	P8	0	0	-	0	-	0	0	-
NEPOOL NE MASS 5MW D AH P	P7	0	0	-	0	-	0	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	69	16.05	330.0%	47.61	44.9%	40	51.84	-21.9%
NEW YORK HUB ZONE G PEAK	GN	0	0	-	0	-	0	0	-
NEW YORK HUB ZONE J PEAK	JN	0	0	-	0	-	0	0	-
NGPL MID-CONTINENT	NL	0	61.9	-100.0%	0	-	8	20.47	-62.8%
NGPL TEX/OK	PD	0	146.67	-100.0%	0	-	12	205.67	-94.3%
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	0	0	-	4.35	-100.0%	4	12.86	-68.9%
NORTHEN NATURAL GAS DEMAR	PE	0	0	-	0	-	0	0	-
NORTHEN NATURAL GAS VENTU	PF	0	0	-	0	-	0	0.43	-100.0%
NORTHWEST ROCKIES BASIS S	NR	0	0	-	0	-	13	0	-
N ROCKIES PIPE SWAP	XR	0	0	-	0	-	0	0.25	-100.0%
NY1% VS GC SPREAD SWAP	VR	15	24.29	-37.2%	16.74	-8.9%	22	59.95	-64.0%
NY 3.0% FUEL OIL (PLATTS	H1	0	0	-	0	-	3	7.74	-56.6%
NY HARBOR 1% FUEL OIL BAL	VK	0	0	-	0	-	0	0.22	-49.8%
NY HARBOR HEAT OIL SWP	MP	36	224.9	-84.1%	154.3	-76.8%	100	119.75	-16.8%
NY HARBOR LOW SULPUR GAS 1000MBBL	NLS	0	28.57	-100.0%	0	-	2	14.85	-88.6%
NY HARBOR RESIDUAL FUEL 1	MM	115	29.57	289.7%	30.87	273.3%	41	49.19	-17.6%
NY HARBOR RESIDUAL FUEL C	ML	0	2.38	-100.0%	0	-	0	0.22	-100.0%
NYH NO 2 CRACK SPREAD CAL	HK	8	25.43	-70.5%	39.13	-80.8%	22	36.97	-39.4%
NYISO CAPACITY	LHV	0	0	-	0	-	3	2.78	-3.6%
NYISO CAPACITY	NNC	0	2.86	-100.0%	0	-	0	3.43	-100.0%
NYISO CAPACITY	NRS	0	0	-	0	-	0	1.44	-82.0%
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	-	0	190.79	-100.0%
NYISO ZONE A 5MW D AH PK	K3	0	0	-	0	-	0	8.15	-100.0%
NYISO ZONE G 5MW D AH O P	D2	0	550	-100.0%	0	-	439	2,699.93	-83.7%

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<b>Energy Futures</b>									
NYISO ZONE G 5MW D AH PK	T3	0	30.24	-100.0%	9.57	-100.0%	36	91.2	-60.2%
NYISO ZONE J 5MW D AH O P	D4	0	0	-	0	-	0	0	-
NYISO ZONE J 5MW D AH PK	D3	0	0	-	0	-	0	0	-
NYMEX ALUMINUM FUTURES	AN	0	0	-	0	-	0	0	-
NYMEX ULSD VS NYMEX HO	UY	0	0	-	23.91	-100.0%	9	0	-
NY ULSD (ARGUS) VS HEATING OIL	7Y	0	0	-	51.09	-100.0%	12	0.92	1206.1%
ONEOK OKLAHOMA NG BASIS	8X	0	0	-	0	-	8	11.66	-30.9%
ONTARIO POWER SWAPS	OFD	0	0	-	0	-	0	0	-
ONTARIO POWER SWAPS	OPD	0	0	-	0	-	0	0.04	151.0%
ONTARIO POWER SWAPS	OPM	0	0	-	0	-	0	0	-
PANHANDLE BASIS SWAP FUTU	PH	0	0	-	0	-	0	1.19	-100.0%
PANHANDLE PIPE SWAP	XH	0	0	-	0	-	0	0	-
PERMIAN BASIS SWAP	PM	0	0	-	0	-	0	0	-
PETROCHEMICALS	22	8	5.14	55.6%	8.7	-8.0%	8	8.53	-4.4%
PETROCHEMICALS	32	4	2.43	83.2%	5.17	-14.0%	5	7.04	-30.1%
PETROCHEMICALS	3NA	0	0.24	-100.0%	0	-	0	0.05	347.5%
PETROCHEMICALS	51	0	0	-	0.09	-100.0%	0	0.1	245.1%
PETROCHEMICALS	8I	52	0	-	34.96	50.0%	33	29.14	13.9%
PETROCHEMICALS	91	31	22.71	38.0%	22.74	37.9%	24	20.68	17.3%
PETROCHEMICALS	MAA	0	0	-	0	-	1	0.22	462.5%
PETROCHEMICALS	MAE	20	24.86	-17.9%	6.96	193.3%	18	11.05	59.4%
PETROCHEMICALS	MAS	2	17.62	-88.6%	9.04	-77.9%	10	8.97	10.1%
PETROCHEMICALS	MBE	35	17.14	104.2%	11.3	209.6%	17	38.32	-55.2%
PETROCHEMICALS	MNB	20	60.57	-67.8%	3.7	427.6%	28	84.7	-66.6%
PETROCHEMICALS	MPS	11	9.67	15.9%	5.78	93.7%	10	5.83	79.9%
PETRO CRCKS & SPRDS ASIA	JNC	0	0	-	0	-	0	0	-
PETRO CRCKS & SPRDS ASIA	STI	0	0	-	0	-	0	0	-
PETRO CRCKS & SPRDS ASIA	STR	0	14.29	-100.0%	0	-	0	1.72	-100.0%
PETRO CRCKS & SPRDS ASIA	STS	0	1.43	-100.0%	0	-	1	2.32	-38.1%
PETRO CRCKS & SPRDS NA	CRB	210	330.24	-36.4%	301.3	-30.3%	316	128.56	145.9%
PETRO CRCKS & SPRDS NA	EXR	144	90.33	59.8%	63.7	126.6%	116	134.52	-13.4%
PETRO CRCKS & SPRDS NA	FOC	5	9.52	-47.5%	4.35	15.0%	17	30.06	-44.3%
PETRO CRCKS & SPRDS NA	GBB	6	20.95	-70.2%	12.22	-48.8%	27	54.85	-51.7%
PETRO CRCKS & SPRDS NA	GCC	0	0	-	0	-	0	7.5	-100.0%
PETRO CRCKS & SPRDS NA	GCI	62	25.67	142.1%	35.57	74.7%	58	62.93	-7.3%
PETRO CRCKS & SPRDS NA	GCM	0	0	-	0	-	1	0.7	84.8%

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<b>Energy Futures</b>									
PETRO CRCKS & SPRDS NA	GCU	412	302.81	36.1%	167.13	146.5%	173	526.61	-67.1%
PETRO CRCKS & SPRDS NA	GFC	0	0	-	0	-	0	0.17	151.1%
PETRO CRCKS & SPRDS NA	HOB	37	21.57	72.7%	46.7	-20.2%	80	39.32	103.4%
PETRO CRCKS & SPRDS NA	MFR	0	0	-	0	-	0	0.02	-100.0%
PETRO CRCKS & SPRDS NA	NFG	0	0	-	0	-	0	0.22	-100.0%
PETRO CRCKS & SPRDS NA	NYF	3	0	-	0	-	1	0	-
PETRO CRCKS & SPRDS NA	RBB	117	157.86	-25.6%	109.7	7.0%	312	248.32	25.5%
PETRO CRCKS & SPRDS NA	RVG	359	695.19	-48.3%	589.35	-39.0%	613	753.14	-18.6%
PETRO CRCKS & SPRDS NA	SF3	3	1.19	110.0%	1.74	43.8%	5	1.49	232.4%
PETRO CRK&SPRD EURO	1NB	8	77.38	-90.3%	20.65	-63.7%	46	84.98	-45.5%
PETRO CRK&SPRD EURO	1ND	0	0	-	0	-	0	0.43	-100.0%
PETRO CRK&SPRD EURO	43	0	0	-	0	-	1	14.72	-95.4%
PETRO CRK&SPRD EURO	BFR	0	0	-	0	-	0	0	-
PETRO CRK&SPRD EURO	BOB	9	46.67	-80.1%	2.17	327.8%	23	76.36	-69.9%
PETRO CRK&SPRD EURO	EOB	2	0	-	0	-	0	0.96	-76.0%
PETRO CRK&SPRD EURO	EPN	22	33	-34.4%	17.61	23.0%	26	45.2	-42.2%
PETRO CRK&SPRD EURO	EVC	13	54.19	-75.6%	42.43	-68.9%	30	91.09	-67.3%
PETRO CRK&SPRD EURO	FBT	0	0	-	0	-	0	0	-
PETRO CRK&SPRD EURO	FVB	0	0	-	0	-	0	0.13	-100.0%
PETRO CRK&SPRD EURO	GCB	0	0	-	0.43	-100.0%	2	2.93	-22.2%
PETRO CRK&SPRD EURO	GOC	0	0	-	0	-	0	0.36	-100.0%
PETRO CRK&SPRD EURO	MGB	0	5.24	-100.0%	1.74	-100.0%	1	0.95	-27.0%
PETRO CRK&SPRD EURO	MUD	0	0.48	-100.0%	0.87	-100.0%	1	0.75	-24.5%
PETRO CRK&SPRD EURO	NBB	0	0	-	0	-	0	0.78	-68.0%
PETRO CRK&SPRD EURO	NOB	4	108.14	-96.6%	1.57	133.2%	15	89.27	-83.0%
PETRO CRK&SPRD EURO	SFB	0	0	-	0	-	0	0.54	-55.0%
PETROLEUM PRODUCTS	1NM	1	0	-	1.3	-23.3%	3	0	-
PETROLEUM PRODUCTS	EWG	55	208.67	-73.8%	68.48	-20.0%	100	239.66	-58.1%
PETROLEUM PRODUCTS	H5F	258	0	-	0	-	22	0	-
PETROLEUM PRODUCTS	JCC	0	0	-	0	-	3	0	-
PETROLEUM PRODUCTS	MME	0	1.43	-100.0%	0	-	0	0.26	-100.0%
PETROLEUM PRODUCTS	MPE	0	0	-	0	-	0	0	-
PETROLEUM PRODUCTS	NCC	0	0	-	0	-	0	0	-
PETROLEUM PRODUCTS	R5F	1	0	-	0.17	273.8%	0	0	-
PETROLEUM PRODUCTS	S53	0	0	-	0.22	-100.0%	0	0	-
PETROLEUM PRODUCTS	UP5	53	0	-	0.78	6704.2%	5	0	-

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<b>Energy Futures</b>									
PETROLEUM PRODUCTS	VU	15	14.05	6.8%	5.43	176.0%	4	5.77	-38.9%
PETROLEUM PRODUCTS ASIA	E6M	1	0	-	0.87	15.0%	1	3.08	-76.4%
PETROLEUM PRODUCTS ASIA	MJN	4	107.86	-96.3%	17.39	-77.0%	60	91.81	-34.6%
PETROLEUM PRODUCTS ASIA	MSB	0	0	-	0	-	0	0	-
PETRO OUTRIGHT EURO	0B	1	1.9	-58.0%	6.96	-88.5%	2	0.53	278.2%
PETRO OUTRIGHT EURO	0C	0	0	-	0	-	0	0.1	96.6%
PETRO OUTRIGHT EURO	0D	27	71	-61.6%	33.3	-18.2%	60	62.9	-4.0%
PETRO OUTRIGHT EURO	0E	0	0	-	0.43	-100.0%	1	1.03	-42.6%
PETRO OUTRIGHT EURO	0F	3	21.14	-87.7%	4.96	-47.5%	15	24.03	-36.0%
PETRO OUTRIGHT EURO	1T	0	0	-	0	-	0	0.17	-79.4%
PETRO OUTRIGHT EURO	33	0	0	-	0	-	0	0	-
PETRO OUTRIGHT EURO	5L	0	1.9	-79.0%	0	-	1	1.14	-10.2%
PETRO OUTRIGHT EURO	63	0	1.9	-100.0%	1.3	-100.0%	0	0.94	-50.5%
PETRO OUTRIGHT EURO	7I	2	3.52	-34.7%	9.57	-76.0%	4	5.32	-19.9%
PETRO OUTRIGHT EURO	7R	4	3.48	0.7%	1.7	106.4%	6	12.96	-55.0%
PETRO OUTRIGHT EURO	88	0	0.95	-100.0%	0.26	-100.0%	0	0.54	-75.1%
PETRO OUTRIGHT EURO	CBB	0	1.19	-100.0%	1.52	-100.0%	0	0.34	-37.2%
PETRO OUTRIGHT EURO	CGB	0	0	-	0	-	0	0	-
PETRO OUTRIGHT EURO	CPB	13	6.05	110.8%	5.43	134.6%	10	14.88	-30.8%
PETRO OUTRIGHT EURO	EFF	1	1	10.0%	0	-	1	0.8	5.3%
PETRO OUTRIGHT EURO	EFM	0	0	-	0	-	0	0	-
PETRO OUTRIGHT EURO	ENS	0	0	-	0	-	1	0.63	12.9%
PETRO OUTRIGHT EURO	EWN	3	34.24	-90.8%	7.74	-59.3%	18	33.89	-45.5%
PETRO OUTRIGHT EURO	FLB	0	0	-	0	-	0	0.02	20.4%
PETRO OUTRIGHT EURO	GES	0	0	-	0	-	0	0.02	-100.0%
PETRO OUTRIGHT EURO	H5G	46	0	-	3.26	1307.6%	5	0	-
PETRO OUTRIGHT EURO	M1B	35	0	-	21.17	65.3%	7	0	-
PETRO OUTRIGHT EURO	M35	0	0	-	0.22	-100.0%	0	0	-
PETRO OUTRIGHT EURO	MBB	0	2.38	-89.5%	0	-	0	1.38	-98.4%
PETRO OUTRIGHT EURO	MBN	1	7.14	-93.0%	6.91	-92.8%	14	39.3	-64.4%
PETRO OUTRIGHT EURO	MEF	11	17.19	-37.5%	6.22	72.9%	15	6.47	134.1%
PETRO OUTRIGHT EURO	R53	5	0	-	1	380.0%	1	0	-
PETRO OUTRIGHT EURO	R5M	11	0	-	13.96	-19.4%	7	0	-
PETRO OUTRIGHT EURO	R5O	4	0	-	42.17	-91.2%	10	0	-
PETRO OUTRIGHT EURO	S5F	1	0	-	2.96	-54.3%	1	0	-
PETRO OUTRIGHT EURO	S5M	22	0	-	19.91	11.7%	7	0	-

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<b>Energy Futures</b>									
PETRO OUTRIGHT EURO	S5O	9	0	-	10.22	-9.0%	2	0	-
PETRO OUTRIGHT EURO	SMU	0	0	-	5.43	-100.0%	4	2.38	54.4%
PETRO OUTRIGHT EURO	T0	0	0	-	0	-	0	0.04	-100.0%
PETRO OUTRIGHT EURO	T2B	0	0	-	0	-	0	0	-
PETRO OUTRIGHT EURO	TMB	0	0	-	0	-	0	0	-
PETRO OUTRIGHT EURO	V0	0	0	-	0	-	0	4.22	-100.0%
PETRO OUTRIGHT EURO	X0	0	0	-	0	-	0	0.5	-100.0%
PETRO OUTRIGHT NA	FCB	0	0	-	0	-	2	3.48	-47.0%
PETRO OUTRIGHT NA	FOM	0	0	-	0	-	0	0.03	-100.0%
PETRO OUTRIGHT NA	JE	0	2	-100.0%	0	-	1	0.48	117.2%
PETRO OUTRIGHT NA	JET	51	93.57	-45.2%	122.83	-58.3%	108	143.92	-24.9%
PETRO OUTRIGHT NA	JTB	13	42.86	-70.8%	23.83	-47.5%	33	32.54	0.7%
PETRO OUTRIGHT NA	MBL	3	0	-	3.04	-17.9%	1	0.17	713.6%
PETRO OUTRIGHT NA	MEN	4	17.76	-78.0%	9.78	-60.1%	8	20.48	-62.9%
PETRO OUTRIGHT NA	MEO	100	118.9	-16.1%	62.22	60.3%	106	165.96	-36.1%
PETRO OUTRIGHT NA	MFD	2	0	-	1.87	-6.4%	2	0.43	274.6%
PETRO OUTRIGHT NA	MMF	0	1.29	-100.0%	1.04	-100.0%	4	0.95	273.9%
PETRO OUTRIGHT NA	XER	0	0	-	0	-	0	1.29	-100.0%
PJM AD HUB 5MW REAL TIME	V3	0	1,112.38	-100.0%	0	-	507	279.13	81.7%
PJM AD HUB 5MW REAL TIME	Z9	0	61.19	-100.0%	0	-	11	61.89	-82.1%
PJM ATSI ELEC	MOD	0	0	-	0	-	0	0	-
PJM ATSI ELEC	MPD	0	0	-	0	-	0	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	0	-
PJM COMED 5MW D AH PK	D8	0	0	-	0	-	0	0	-
PJM DAILY	JD	0	0	-	0	-	0	0	-
PJM DAYTON DA OFF-PEAK	R7	0	0	-	0	-	0	0	-
PJM DAYTON DA PEAK	D7	0	0	-	0	-	0	0	-
PJM NI HUB 5MW REAL TIME	B3	0	0	-	0	-	17	27.5	-39.5%
PJM NI HUB 5MW REAL TIME	B6	0	0	-	0	-	303	25.54	1086.5%
PJM NILL DA OFF-PEAK	L3	0	0	-	0	-	0	3.32	-100.0%
PJM NILL DA PEAK	N3	0	0	-	0	-	0	0.28	-100.0%
PJM OFF-PEAK LMP SWAP FUT	JP	0	0	-	0	-	0	0	-
PJM PECO ZONE5MW PEAK CAL MO DAY A	4N	0	140.95	-100.0%	0	-	0	12.76	-100.0%
PJM PSEG DA OFF-PEAK	W6	0	2,637.14	-100.0%	0	-	0	339.57	-100.0%

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<b>Energy Futures</b>									
PJM PSEG DA PEAK	L6	0	140.95	-100.0%	0	-	0	18.25	-100.0%
PJM WESTH DA OFF-PEAK	E4	0	0	-	0	-	0	438.84	-100.0%
PJM WESTHDA PEAK	J4	0	0	-	0	-	0	23.81	-100.0%
PJM WESTH RT OFF-PEAK	N9	0	1,112.38	-100.0%	0	-	204	1,605.52	-87.3%
PJM WESTH RT PEAK	L1	0	85.67	-100.0%	189.35	-100.0%	232	262.89	-11.7%
PLASTICS	PGP	37	33.76	9.0%	34.87	5.5%	34	21.65	58.9%
PREMIUM UNLD 10P FOB MED	3G	1	21.24	-95.1%	0	-	4	12.23	-69.6%
PREMIUM UNLEAD 10PPM FOB	8G	0	0.24	-100.0%	0	-	1	1.91	-68.5%
PREM UNL GAS 10PPM RDAM FOB BALMO	7N	0	0.14	-100.0%	0	-	0	0.36	-75.8%
PREM UNL GAS 10PPM RDAM FOB SWAP	7L	0	0	-	0	-	0	1.41	-89.2%
PROPANE NON-LDH MB (OPIS) BALMO SWP	1S	39	0.33	11496.2%	81.35	-52.5%	67	22.4	198.5%
PROPANE NON-LDH MT. BEL (OPIS) SWP	1R	1,542	589.67	161.6%	1,057.83	45.8%	957	599.9	59.5%
RBOB CALENDAR SWAP	RL	311	172	81.0%	182.17	70.9%	275	267.89	2.5%
RBOB CRACK SPREAD	RM	103	2.62	3832.8%	59.13	74.2%	59	41.31	42.1%
RBOB CRACK SPREAD BALMO S	1E	0	0	-	0	-	0	0	-
RBOB GASOLINE BALMO CLNDR	1D	79	18.86	320.8%	8.61	821.7%	45	48.18	-6.5%
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	0	-	3.26	-100.0%	1	8.51	-92.4%
SAN JUAN BASIS SWAP	NJ	0	0	-	0	-	0	0.25	-100.0%
SAN JUAN PIPE SWAP	XX	0	0	-	0	-	0	1.55	-100.0%
SINGAPORE 180CST BALMO	BS	0	0.48	-100.0%	0.91	-100.0%	1	2.08	-52.2%
SINGAPORE 380CST BALMO	BT	6	4.43	31.0%	0.74	684.7%	4	9.89	-59.2%
SINGAPORE 380CST FUEL OIL	SE	107	370	-71.2%	73.17	45.8%	130	396.39	-67.2%
SINGAPORE FUEL 180CST CAL	UA	5	20.29	-74.6%	2.74	88.0%	11	36.56	-71.2%
SINGAPORE FUEL OIL SPREAD	SD	2	8.33	-70.6%	1.91	28.1%	3	26.66	-88.8%
SINGAPORE GASOIL	MAF	119	35.57	233.4%	103.13	15.0%	98	8.85	1003.4%
SINGAPORE GASOIL	MTB	3	2.29	42.2%	8.09	-59.8%	3	2.39	28.2%
SINGAPORE GASOIL	MTS	86	271.33	-68.2%	110.7	-22.1%	166	228.1	-27.3%
SINGAPORE GASOIL	STZ	0	0	-	0	-	0	18.53	-100.0%
SINGAPORE GASOIL CALENDAR	GDH	0	0	-	0	-	0	0.22	-100.0%
SINGAPORE GASOIL CALENDAR	GDL	0	0	-	0	-	0	1.08	-100.0%
SINGAPORE GASOIL CALENDAR	GHS	0	0	-	0	-	1	0	-
SINGAPORE GASOIL CALENDAR	MGO	0	0	-	0	-	0	0.86	-100.0%
SINGAPORE GASOIL CALENDAR	MSG	16	6.19	152.8%	10.17	53.8%	9	21.04	-57.2%
SINGAPORE GASOIL CALENDAR	SGG	0	0	-	0	-	0	1.4	-100.0%

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<b>Energy Futures</b>									
SINGAPORE GASOIL SWAP	SG	65	75.48	-14.3%	21.91	195.0%	46	203.7	-77.6%
SINGAPORE GASOIL VS ICE	GA	5	114.43	-96.1%	4.48	0.5%	20	555.23	-96.3%
SINGAPORE JET KERO BALMO	BX	0	0	-	2.17	-100.0%	0	0.93	-76.6%
SINGAPORE JET KERO GASOIL	RK	0	32.14	-100.0%	0	-	0	150.09	-99.7%
SINGAPORE JET KEROSENE SW	KS	25	13.1	87.1%	44.13	-44.5%	28	57.22	-50.9%
SINGAPORE JET KERO VS. GASOIL BALMO	Z0	0	0	-	0	-	0	1.72	-100.0%
SINGAPORE MOGAS 92 UNLEADED BALMO	1P	0	2.38	-100.0%	0	-	6	24.88	-73.9%
SINGAPORE MOGAS 92 UNLEADED SWP	1N	299	669.81	-55.4%	115.39	158.8%	408	654.97	-37.7%
SINGAPORE NAPHTHA SWAP	SP	0	0	-	0	-	0	0.86	-100.0%
SING FUEL	MSD	1	0	-	0.22	475.0%	0	0.43	-69.9%
SOUTH STAR TEX OKLHM KNS	8Z	0	0	-	0	-	0	0	-
Sumas Basis Swap	NK	0	0	-	0	-	0	0.39	-100.0%
TC2 ROTTERDAM TO USAC 37K	TM	1	9.29	-86.5%	8.26	-84.9%	11	4.53	134.5%
TC5 RAS TANURA TO YOKOHAM	TH	1	7.62	-90.2%	2.61	-71.3%	15	5.11	189.5%
TCO BASIS SWAP	TC	0	0	-	0	-	0	0	-
TD3 MEG TO JAPAN 250K MT	TL	142	243.33	-41.7%	420.17	-66.3%	254	75.63	236.5%
TENNESSEE ZONE 0 BASIS SW	NQ	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	0	-
TEXAS GAS ZONE1 NG BASIS	9F	0	0	-	0	-	0	0	-
Transco Zone 3 Basis	CZ	0	0	-	0	-	0	0	-
TRANSCO ZONE4 BASIS SWAP	TR	0	0	-	0	-	0	0	-
TRANSCO ZONE 6 BASIS SWAP	NZ	0	0	-	0	-	0	0	-
UCM FUT	UCM	0	0	-	0	-	0	0.26	-66.5%
UK NBP NAT GAS CAL MTH FUT	UKG	15	96.71	-84.7%	15.87	-7.1%	27	208.67	-86.8%
ULSD 10PPM CIF MED VS ICE	Z7	0	0	-	0	-	0	0.06	-100.0%
ULSD UP-DOWN BALMO SWP	1L	248	379.57	-34.8%	482.83	-48.7%	265	276.19	-3.9%
UP DOWN GC ULSD VS NMX HO	LT	1,961	1,670.24	17.4%	2,177.61	-10.0%	1,646	1,563.34	5.3%
WAHA BASIS	NW	0	0	-	0	-	3	13.8	-79.6%
WESTERN RAIL DELIVERY PRB	QP	0	0	-	0	-	0	0.11	-100.0%
WTI-BRENT BULLET SWAP	BY	0	0	-	21.91	-100.0%	8	28.66	-70.5%
WTI-BRENT CALENDAR SWAP	BK	1,738	874.33	98.8%	1,724.3	0.8%	1,720	1,437.55	19.6%
WTI CALENDAR	CS	3,004	1,768.57	69.8%	1,905.78	57.6%	2,002	1,610.25	24.3%
WTS (ARGUS) VS WTI SWAP	FF	72	149.43	-51.8%	268.04	-73.1%	200	382.45	-47.8%
WTS (ARGUS) VS WTI TRD MT	FH	6	5.71	0.6%	26.96	-78.7%	31	26.83	17.3%

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<b>Energy Options</b>									
BRENT 1 MONTH CAL	AA	0	0	-	0	-	0	12.93	-100.0%
BRENT CALENDAR SWAP	BA	45	13.62	230.4%	0	-	20	58.03	-64.9%
BRENT CRUDE OIL 12 M CSO	9Y	0	0	-	0	-	0	8.62	-100.0%
BRENT CRUDE OIL 1 M CSO	9C	0	28.57	-100.0%	26.09	-100.0%	155	1,771.93	-91.3%
BRENT CRUDE OIL 6 M CSO	9L	0	0	-	0	-	0	4.31	-100.0%
BRENT OIL LAST DAY	BE	650	4,974.1	-86.9%	460.87	41.0%	1,539	1,742.14	-11.6%
BRENT OIL LAST DAY	BZO	3,908	8,623.14	-54.7%	3,425.91	14.1%	4,483	8,054.81	-44.3%
BRENT OIL LAST DAY	OS	0	0	-	0	-	0	5.13	-100.0%
COAL API2 INDEX	CLA	0	7.86	-100.0%	0.43	-100.0%	1	28.41	-96.6%
COAL API2 INDEX	CQA	0	8.33	-100.0%	0	-	4	15.75	-77.1%
COAL API4 INDEX	RLA	0	0	-	0	-	0	0.11	-100.0%
COAL API4 INDEX	RQA	0	0	-	0	-	0	0.26	-100.0%
COAL SWAP	CPF	0	0	-	0	-	0	0	-
COAL SWAP	RPF	0	0	-	0	-	0	0	-
CRUDE OIL	6Y	0	0	-	0	-	1	0	-
CRUDE OIL 1MO	WA	5,458	9,678.33	-43.6%	6,333.74	-13.8%	10,193	9,617.03	6.0%
CRUDE OIL APO	AO	5,267	2,528.67	108.3%	1,055.96	398.8%	2,339	2,098.7	11.5%
CRUDE OIL CALNDR STRIP	6F	0	0	-	0	-	1	0.73	18.1%
CRUDE OIL OUTRIGHTS	AH	0	0	-	0	-	0	34.48	-100.0%
CRUDE OIL OUTRIGHTS	WCI	0	0	-	0	-	4	1.68	147.2%
CRUDE OIL PHY	CD	0	0	-	0	-	6	89.87	-93.7%
CRUDE OIL PHY	LC	922	1,179.24	-21.8%	605.22	52.4%	538	555.93	-3.3%
CRUDE OIL PHY	LO	96,349	278,740.48	-65.4%	106,976.22	-9.9%	126,638	177,995.49	-28.9%
CRUDE OIL PHY	LO1	788	539.33	46.1%	924.83	-14.8%	746	730.98	2.0%
CRUDE OIL PHY	LO2	627	964.19	-35.0%	556.7	12.6%	660	770.84	-14.4%
CRUDE OIL PHY	LO3	17	1,353.62	-98.7%	244.09	-93.0%	431	582.3	-26.0%
CRUDE OIL PHY	LO4	1,222	1,148.19	6.5%	595.65	105.2%	797	791.39	0.7%
CRUDE OIL PHY	LO5	1,040	1,044.29	-0.4%	36.7	2734.3%	302	308.77	-2.2%
ETHANOL	CE1	0	0	-	0	-	0	1.19	-100.0%
ETHANOL	CE3	0	0	-	0	-	0	0.65	-100.0%
ETHANOL SWAP	CVR	327	150.24	117.7%	418.91	-21.9%	504	286.03	76.3%
ETHANOL SWAP	GVR	0	17.86	-100.0%	0	-	3	15.06	-77.6%
FREIGHT MARKETS	TDT	0	0	-	0	-	8	0	-
HEATING OIL PHY	LB	0	33.29	-100.0%	4.35	-100.0%	9	7.41	17.0%
HEATING OIL PHY	OH	1,104	2,593.86	-57.4%	1,069.13	3.3%	1,318	1,506.37	-12.5%
HENRY HUB FINANCIAL LAST	E7	80	193.95	-58.8%	238.22	-66.4%	280	206.93	35.5%

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<b>Energy Options</b>									
HO 1 MONTH CLNDR OPTIONS	FA	20	119.05	-83.2%	0	-	11	11.21	-1.5%
LLS CRUDE OIL	WJO	0	0	-	0	-	0	0.43	-100.0%
LLS CRUDE OIL	YVO	0	0	-	0	-	0	0	-
MCCLOSKEY ARA ARGS COAL	MTO	15	0	-	2.17	590.0%	2	1.25	66.2%
MCCLOSKEY RCH BAY COAL	MFO	1	3.33	-62.5%	7.83	-84.0%	5	9.25	-47.3%
NATURAL GAS 1 M CSO FIN	G4	8,058	5,864.29	37.4%	5,952.22	35.4%	3,960	2,121.85	86.6%
NATURAL GAS 2 M CSO FIN	G2	741	1.43	51786.5%	26.09	2741.5%	91	6.16	1378.4%
NATURAL GAS 3 M CSO FIN	G3	145	0	-	39.13	270.6%	989	190.72	418.5%
NATURAL GAS 5 M CSO FIN	G5	68	0	-	82.61	-18.3%	26	10.99	140.3%
NATURAL GAS 6 M CSO FIN	G6	2,133	576.19	270.1%	717.39	197.3%	462	415.95	11.0%
NATURAL GAS OPTION ON CALENDAR STR	6J	161	317.14	-49.2%	166.09	-3.1%	126	147.85	-15.0%
NATURAL GAS PHY	KD	165	287.62	-42.5%	447.61	-63.0%	192	868.92	-77.9%
NATURAL GAS PHY	LN	100,582	141,337.1	-28.8%	88,058.87	14.2%	75,613	91,069.17	-17.0%
NATURAL GAS PHY	ON	7,904	20,019.05	-60.5%	6,035.87	30.9%	6,066	9,633.46	-37.0%
NATURAL GAS WINTER STRIP	6I	0	0	-	0	-	6	11.64	-44.2%
N ROCKIES PIPE SWAP	ZR	0	73.33	-100.0%	7.91	-100.0%	19	15.33	22.9%
NY HARBOR HEAT OIL SWP	AT	14	286.14	-95.3%	318.87	-95.8%	115	138.37	-16.8%
NYISO ZONE G 5MW PEAK OPTIONS	9U	0	0	-	0	-	0	0	-
PANHANDLE PIPE SWAP	PU	0	0	-	0	-	0	0	-
PETROCHEMICALS	4H	1	0.48	183.5%	0.7	94.1%	21	28.72	-26.6%
PETROCHEMICALS	4J	0	0	-	0	-	1	5.82	-85.1%
PETROCHEMICALS	4K	0	0	-	0	-	2	14.22	-83.0%
PETROCHEMICALS	CPR	0	0	-	0	-	0	0	-
PETRO OUTRIGHT EURO	8H	0	0	-	0	-	0	0	-
PETRO OUTRIGHT EURO	BCO	0	0	-	0.52	-100.0%	0	0	-
PETRO OUTRIGHT NA	DAP	6	17.14	-65.0%	0	-	2	2.38	-1.7%
PJM WES HUB PEAK CAL MTH	6OA	8	3.81	96.9%	8.26	-9.2%	4	3.45	25.5%
PJM WES HUB PEAK CAL MTH	JOA	0	0	-	0	-	0	3.79	-100.0%
PJM WES HUB PEAK LMP 50MW	PMA	0	4	-100.0%	0	-	4	32.28	-88.8%
RBOB 1MO CAL SPD OPTIONS	ZA	0	0	-	0	-	1	3.02	-78.5%
RBOB CALENDAR SWAP	RA	0	3.57	-100.0%	3.26	-100.0%	2	4.85	-48.6%
RBOB CRACK	RX	0	0	-	0	-	0	0.01	-100.0%
RBOB PHY	OB	373	698.86	-46.6%	260.26	43.3%	645	586.74	9.9%
RBOB PHY	RF	0	0	-	0	-	7	0.54	1204.8%
ROTTERDAM 3.5%FUEL OIL CL	Q6	0	0	-	0	-	0	0	-
SAN JUAN PIPE SWAP	PJ	0	0	-	39.57	-100.0%	17	9.26	81.3%

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<b>Energy Options</b>								
SHORT TERM C15	0	0	-	0	-	0	2.16	-100.0%
SHORT TERM U11	3	0	-	0	-	3	5.33	-39.1%
SHORT TERM U12	0	38.1	-100.0%	0	-	6	8.19	-21.8%
SHORT TERM U13	5	4.76	6.1%	0	-	1	2.16	-49.6%
SHORT TERM U14	0	0	-	0	-	1	3.72	-82.5%
SHORT TERM U15	20	0	-	0	-	7	3.44	111.1%
SHORT TERM U22	0	0	-	0	-	0	5.48	-99.9%
SHORT TERM U23	0	0	-	0	-	1	3.87	-86.9%
SHORT TERM U24	0	0	-	0	-	1	3.79	-71.4%
SHORT TERM U25	0	0	-	0	-	0	0.66	-100.0%
SHORT TERM U26	0	9.52	-100.0%	0	-	0	2.59	-83.3%
SHORT TERM NATURAL GAS U01	0	0	-	5.43	-100.0%	3	2.37	18.7%
SHORT TERM NATURAL GAS U02	25	0	-	0	-	3	12.06	-75.8%
SHORT TERM NATURAL GAS U03	0	35.71	-100.0%	0	-	3	9.82	-69.0%
SHORT TERM NATURAL GAS U04	5	0	-	13.04	-61.7%	4	8.51	-49.1%
SHORT TERM NATURAL GAS U05	0	9.52	-100.0%	0	-	1	7.03	-84.6%
SHORT TERM NATURAL GAS U06	0	0	-	0	-	2	6.47	-66.2%
SHORT TERM NATURAL GAS U07	5	11.9	-56.3%	0	-	3	7.98	-59.1%
SHORT TERM NATURAL GAS U08	0	0	-	8.7	-100.0%	11	6.37	80.2%
SHORT TERM NATURAL GAS U09	0	4.76	-100.0%	4.35	-100.0%	3	7.04	-57.0%
SHORT TERM NATURAL GAS U10	0	0	-	17.39	-100.0%	5	5.39	-7.6%
SHORT TERM NATURAL GAS U16	0	0	-	0	-	1	3.02	-64.1%
SHORT TERM NATURAL GAS U17	0	0	-	13.04	-100.0%	2	9.9	-80.3%
SHORT TERM NATURAL GAS U18	10	0	-	0	-	1	6.99	-79.9%
SHORT TERM NATURAL GAS U19	5	0	-	0	-	1	1.5	-42.3%
SHORT TERM NATURAL GAS U20	10	0	-	0	-	2	6.14	-64.8%
SHORT TERM NATURAL GAS U21	0	0	-	0	-	0	1.56	-86.2%
SHORT TERM NATURAL GAS U27	0	0	-	0	-	0	1.83	-100.0%
SHORT TERM NATURAL GAS U28	0	0	-	0	-	2	0.43	326.9%
SHORT TERM NATURAL GAS U29	3	2.38	5.0%	0	-	1	2.2	-70.5%
SHORT TERM NATURAL GAS U30	0	0	-	0	-	3	0.43	502.6%
SHORT TERM NATURAL GAS U31	0	0	-	8.7	-100.0%	6	0.12	5106.8%
SINGAPORE GASOIL CALENDAR M2	0	0	-	0	-	0	0	-
SINGAPORE JET FUEL CALEND N2	0	0	-	0	-	0	0	-
WTI-BRENT BULLET SWAP BV	1,610	1,496.9	7.6%	972.83	65.5%	2,448	3,615.22	-32.3%
WTI CRUDE OIL 1 M CSO FI 7A	1,480	6,863.81	-78.4%	3,663.04	-59.6%	2,452	3,737.24	-34.4%

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Commodity	ADV NOV 2019	ADV NOV 2018	% CHG	ADV OCT 2019	% CHG	ADV Y.T.D 2019	ADV Y.T.D 2018	% CHG
Ag Products Futures								
CJ	0	0	-	0	-	0	0.02	60.2%
KT	0	0	-	0	-	0	0	-
TT	0	0.05	-100.0%	0.09	-100.0%	0	0.09	81.8%
YO	0	0	-	0	-	0	0.25	-82.7%
Energy Futures								
	0	0.05	110.1%	0.09	14.9%	0	0.36	-30.7%
	2,004,486	2,634,881.38	-23.9%	2,058,730.65	-2.6%	2,155,085	2,259,597.85	-4.6%
	737,136	568,699.48	29.6%	562,808.17	31.0%	600,715	597,797.13	0.5%
	2,741,622	3,203,580.91	-14.4%	2,621,538.91	4.6%	2,755,799.63	2,857,395.34	-3.6%
Metals Futures								
	241,378	491,911.05	-50.9%	229,854.74	5.0%	244,348	320,152.83	-23.7%
	66,807	55,110.24	21.2%	70,096	-4.7%	80,284	57,801.12	38.9%
	308,185	547,021.29	-43.7%	299,950.74	2.7%	324,632.44	377,953.95	-14.1%
Energy Options								
	803,943	623,809.71	28.9%	632,904.17	27.0%	680,999	655,598.24	3.9%
	2,245,864	3,126,792.43	-28.2%	2,288,585.39	-1.9%	2,399,433	2,579,750.68	-7.0%
	0	0.05	110.1%	0.09	14.9%	0	0.36	-30.7%
	3,049,807	3,750,602.19	-18.7%	2,921,489.65	4.4%	3,080,432.07	3,235,349.28	-4.8%