

## NYMEX/COMEX Exchange Open Interest Report - Monthly

	Commodity	Open Interest NOV 2020	Open Interest NOV 2019	% CHG	Open Interest OCT 2020	% CHG
Ag Products Futures						
COCOA TAS	CJ	0	0	-	0	-
COFFEE	KT	0	0	-	0	-
COTTON	TT	0	0	-	0	-
SUGAR 11	YO	0	0	-	0	-
Energy Futures						
CRUDE OIL PHY	CL	2,127,463	2,190,986	-2.9%	2,023,400	5.1%
CRUDE OIL	WS	0	36	-100.0%	5,036	-100.0%
MINY WTI CRUDE OIL	QM	2,796	4,008	-30.2%	3,236	-13.6%
BRENT OIL LAST DAY	BZ	162,467	223,009	-27.1%	171,746	-5.4%
HEATING OIL PHY	HO	373,886	413,914	-9.7%	407,884	-8.3%
HTG OIL	BH	108	120	-10.0%	118	-8.5%
MINY HTG OIL	QH	0	0	-	0	-
RBOB PHY	RB	394,564	376,874	4.7%	368,982	6.9%
MINY RBOB GAS	QU	0	0	-	2	-100.0%
NATURAL GAS	HP	132,310	81,933	61.5%	127,883	3.5%
LTD NAT GAS	HH	381,715	301,828	26.5%	384,385	-0.7%
MINY NATURAL GAS	QG	4,343	5,981	-27.4%	5,701	-23.8%
PJM MONTHLY	JM	0	80	-100.0%	0	-
NATURAL GAS PHY	NG	1,203,173	1,264,051	-4.8%	1,172,915	2.6%
RBOB GAS	RT	84	84	0.0%	91	-7.7%
3.5% FUEL OIL CID MED SWA	7D	0	18	-100.0%	0	-
3.5% FUEL OIL CIF BALMO S	8D	0	0	-	0	-
AEP-DAYTON HUB DAILY	VD	84	38	121.1%	84	0.0%
AEP-DAYTON HUB MTHLY	VM	0	0	-	0	-
AEP-DAYTON HUB OFF-PEAK M	VP	0	0	-	0	-
ALGONQUIN CITYGATES BASIS	B4	0	0	-	0	-
ANR OKLAHOMA	NE	0	0	-	0	-
ARGUS LLS VS. WTI (ARG) T	E5	17,592	15,890	10.7%	8,362	110.4%
ARGUS PROPAN FAR EST INDE	7E	5,091	5,188	-1.9%	4,888	4.2%
ARGUS PROPAN(SAUDI ARAMCO	9N	2,085	1,829	14.0%	2,410	-13.5%
AUSTRIALIAN COKE COAL	ACT	0	0	-	0	-
AUSTRIALIAN COKE COAL	ALW	0	8	-100.0%	0	-
BRENT BALMO SWAP	J9	100	0	-	0	-
BRENT CALENDAR SWAP	CY	13,382	29,713	-55.0%	13,704	-2.3%
BRENT CFD SWAP	6W	0	0	-	0	-
BRENT FINANCIAL FUTURES	BB	0	0	-	0	-
BRENT FINANCIAL FUTURES	MBC	10	230	-95.7%	15	-33.3%
BRENT FINANCIAL FUTURES	MDB	90	0	-	100	-10.0%
BRENT OIL LAST DAY	BZL	0	0	0.0%	0	0.0%
BRENT OIL LAST DAY	BZS	0	0	0.0%	0	0.0%
CANADIAN LIGHT SWEET OIL	CIL	0	0	-	0	-
CENTERPOINT BASIS SWAP	PW	0	0	-	0	-
CHICAGO ETHANOL SWAP	CU	33,806	40,065	-15.6%	31,179	8.4%
CHICAGO ULSD PL VS HO SPR	5C	1,077	1,560	-31.0%	1,432	-24.8%
CHICAGO UNL GAS PL VS RBO	3C	955	100	855.0%	195	389.7%
CIG BASIS	CI	0	558	-100.0%	0	-
CINERGY HUB OFF-PEAK MONT	EJ	0	0	-	0	-
CINERGY HUB PEAK MONTH	EM	0	0	-	0	-
CIN HUB 5MW D AH O PK	K2	0	0	-	0	-
CIN HUB 5MW D AH PK	H5	0	233	-100.0%	0	-

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<b>Energy Futures</b>						
CIN HUB 5MW REAL TIME O P	H4	2,744	42,904	-93.6%	5,544	-50.5%
CIN HUB 5MW REAL TIME PK	H3	154	3,164	-95.1%	294	-47.6%
COAL SWAP	ACM	0	0	-	0	-
COLUMB GULF MAINLINE NG B	5Z	22	658	-96.7%	44	-50.0%
CONWAY NATURAL GASOLINE (OPIS) SWAP	8L	749	1,152	-35.0%	833	-10.1%
CONWAY NORMAL BUTANE (OPIS) SWAP	8M	1,987	1,544	28.7%	2,195	-9.5%
CONWAY PROPANE 5 DECIMALS SWAP	8K	23,787	22,713	4.7%	26,349	-9.7%
CRUDE OIL	LPS	750	20,535	-96.3%	1,900	-60.5%
CRUDE OIL LAST DAY	26	0	0	-	0	-
CRUDE OIL OUTRIGHTS	42	362	285	27.0%	100	262.0%
CRUDE OIL OUTRIGHTS	CC5	1,377	1,935	-28.8%	1,374	0.2%
CRUDE OIL OUTRIGHTS	CPD	0	0	-	0	-
CRUDE OIL OUTRIGHTS	CSW	3,248	0	-	3,148	3.2%
CRUDE OIL OUTRIGHTS	DAB	0	0	-	30	-100.0%
CRUDE OIL OUTRIGHTS	DBL	0	730	-100.0%	0	-
CRUDE OIL OUTRIGHTS	GSW	2,190	69	3,073.9%	2,190	0.0%
CRUDE OIL OUTRIGHTS	HTT	144,908	157,698	-8.1%	142,534	1.7%
CRUDE OIL OUTRIGHTS	LSW	3,492	1,887	85.1%	3,703	-5.7%
CRUDE OIL OUTRIGHTS	SSW	0	0	-	0	-
CRUDE OIL OUTRIGHTS	UMD	0	0	-	0	-
CRUDE OIL OUTRIGHTS	UNS	0	0	-	0	-
CRUDE OIL OUTRIGHTS	WCC	0	0	-	0	-
CRUDE OIL OUTRIGHTS	WCW	4,425	6,733	-34.3%	4,036	9.6%
CRUDE OIL PHY	CLL	0	0	0.0%	0	0.0%
CRUDE OIL PHY	HCL	366	973	-62.4%	168	117.9%
CRUDE OIL SPRDS	38	0	150	-100.0%	0	-
CRUDE OIL SPRDS	ANT	480	0	-	480	0.0%
CRUDE OIL SPRDS	HIL	18,539	900	1,959.9%	17,074	8.6%
CRUDE OIL SPRDS	WTT	84,716	126,768	-33.2%	81,388	4.1%
CRUDE OIL TRADE AT MARKER SINGAPORE	CLS	0	0	0.0%	0	0.0%
DAILY PJM	AOR	2,520	6,048	-58.3%	1,800	40.0%
DAILY PJM	IDO	19,320	17,952	7.6%	17,955	7.6%
DAILY PJM	NOC	840	2,736	-69.3%	600	40.0%
DAILY PJM	PAP	270	260	3.8%	250	8.0%
DAILY PJM	PEO	5,520	2,720	102.9%	5,130	7.6%
DAILY PJM	PNO	0	18,496	-100.0%	0	-
DAILY PJM	PNP	0	1,014	-100.0%	0	-
DAILY PJM	PWO	1,104	17,408	-93.7%	1,026	7.6%
DAILY PJM	PWP	54	832	-93.5%	50	8.0%
DAILY PJM	WOR	4,200	9,792	-57.1%	3,000	40.0%
DAILY PJM	ZAO	1,104	1,088	1.5%	1,026	7.6%
DAILY PJM	ZGO	25,944	36,992	-29.9%	25,231	2.8%
DAILY PJM	ZJO	1,656	16,320	-89.9%	1,539	7.6%
DATED BRENT (PLATTS) DAILY SWAP	7G	0	0	-	0	-
DATED TO FRONTLINE BRENT	FY	100	795	-87.4%	150	-33.3%
DIESEL 10P BRG FOB RDM VS	7X	0	0	-	0	-
DOMINION TRAN INC - APP I	IH	0	0	-	0	-
DOMINION TRANSMISSION INC	PG	312	3,672	-91.5%	492	-36.6%
DUBAI CRUDE OIL BALMO	BI	0	0	-	0	-
DUBAI CRUDE OIL CALENDAR	DC	100	1,039	-90.4%	100	0.0%
DUTCH TTF NATURAL GAS CAL MONTH FUT	TTF	24,234	7,316	231.2%	27,788	-12.8%
EASTERN RAIL DELIVERY CSX	QX	0	0	-	0	-

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<b>Energy Futures</b>						
EAST/WEST FUEL OIL SPREAD	EW	2	14	-85.7%	3	-33.3%
EIA FLAT TAX ONHWAY DIESE	A5	4,841	1,343	260.5%	5,176	-6.5%
ELEC ERCOT DLY OFF PK	I4	0	0	-	0	-
ELEC ERCOT DLY PEAK	I3	0	0	-	0	-
ELEC ERCOT DLY PEAK	I7	0	0	-	0	-
ELEC ERCOT OFF PEAK	I2	0	0	-	0	-
ELEC FINSETTLED	47	84	596	-85.9%	128	-34.4%
ELEC MISO PEAK	4L	0	0	-	0	-
ELEC MISO PEAK	55	0	0	-	0	-
ELEC NYISO OFF-PEAK	4M	0	0	-	0	-
ELEC NYISO OFF-PEAK	58	0	0	-	0	-
ELECTRICITY OFF PEAK	46	1,586	10,962	-85.5%	2,370	-33.1%
ELECTRICITY OFF PEAK	4P	0	16,180	-100.0%	0	-
ERCOT HOUSTON Z MCPE 5MW PEAK SWAP	I1	0	0	-	0	-
ERCOT NORTH ZMCPE 5MW OFFPEAK	I8	0	0	-	0	-
ERCOT NORTH ZMCPE 5MW OFFPEAK SWAP	I6	0	0	-	0	-
ERCOT NORTH ZMCPE 5MW PEAK	I5	0	0	-	0	-
ETHANOL	MTH	10	0	0.0%	20	-50.0%
ETHANOL	Z1B	0	0	-	0	-
ETHANOL SWAP	MT2	1,010	430	134.9%	510	98.0%
ETHANOL T2 FOB ROTT INCL DUTY SWAP	Z1	8,558	6,906	23.9%	7,502	14.1%
EURO 1% FUEL OIL NEW BALM	KX	0	0	-	0	-
EURO 3.5% FUEL OIL RDAM B	KR	0	95	-100.0%	0	-
EURO 3.5% FUEL OIL SPREAD	FK	0	20	-100.0%	0	-
EURO-DENOMINATED PETRO PROD	NCP	0	0	-	0	-
EURO GASOIL 10PPM VS ICE	ET	0	0	-	0	-
EUROPE 1% FUEL OIL NWE CA	UF	0	227	-100.0%	0	-
EUROPE 1% FUEL OIL RDAM C	UH	0	2	-100.0%	0	-
EUROPE 3.5% FUEL OIL MED	UI	0	33	-100.0%	0	-
EUROPE 3.5% FUEL OIL RDAM	UV	723	3,879	-81.4%	805	-10.2%
EUROPEAN GASOIL (ICE)	7F	72	144	-50.0%	73	-1.4%
EUROPEAN NAPHTHA BALMO	KZ	3	15	-80.0%	0	-
EUROPEAN NAPHTHA CRACK SPR	EN	3,111	6,528	-52.3%	3,514	-11.5%
EUROPE DATED BRENT SWAP	UB	31	25	24.0%	33	-6.1%
EUROPE JET KERO NWE CALSW	UJ	0	6	-100.0%	0	-
EUROPE NAPHTHA CALSWAP	UN	783	1,465	-46.6%	823	-4.9%
EURO PROPANE CIF ARA SWA	PS	2,723	2,658	2.4%	2,716	0.3%
FREIGHT MARKETS	ACB	170	1,020	-83.3%	255	-33.3%
FREIGHT MARKETS	BF1	0	0	-	0	-
FREIGHT MARKETS	BF2	334	0	-	297	12.5%
FREIGHT MARKETS	BF3	0	0	-	0	-
FREIGHT MARKETS	FLP	678	637	6.4%	786	-13.7%
FREIGHT MARKETS	FRC	20	534	-96.3%	30	-33.3%
FREIGHT MARKETS	FRS	0	10	-100.0%	0	-
FREIGHT MARKETS	T2D	330	1,055	-68.7%	525	-37.1%
FREIGHT MARKETS	T7C	85	0	-	95	-10.5%
FREIGHT MARKETS	TC6	0	0	-	0	-
FREIGHT MARKETS	TD3	0	0	-	0	-
FREIGHT MARKETS	TD8	0	0	-	0	-
FREIGHT MARKETS	USC	0	0	-	0	-
FREIGHT MARKETS	USE	755	0	-	785	-3.8%
FUEL OIL CRACK VS ICE	FO	2,217	8,175	-72.9%	2,588	-14.3%

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<b>Energy Futures</b>						
FUEL OIL NWE CRACK VS ICE	FI	26	156	-83.3%	39	-33.3%
FUEL OIL (PLATS) CAR CM	1W	0	2	-100.0%	0	-
FUEL OIL (PLATS) CAR CN	1X	0	0	-	0	-
FUELOIL SWAP:CARGOES VS.B	FS	160	510	-68.6%	188	-14.9%
GAS EURO-BOB OXY NWE BARGES	7H	2,089	3,088	-32.4%	2,389	-12.6%
GAS EURO-BOB OXY NWE BARGES CRK	7K	15,028	18,491	-18.7%	15,993	-6.0%
GASOIL 0.1CIF MED VS ICE	Z5	0	0	-	0	-
GASOIL 0.1 CIF NWE VS ISE	TU	0	0	-	0	-
GASOIL 0.1 RDAM BRGS VS I	WQ	17	4	325.0%	0	-
GASOIL 0.1 ROTTERDAM BARG	VL	15	26	-42.3%	30	-50.0%
GASOIL 10PPM VS ICE SWAP	TP	0	3	-100.0%	0	-
GASOIL CALENDAR SWAP	GX	86	97	-11.3%	68	26.5%
GASOIL CRACK SPREAD CALEN	GZ	2,412	12,568	-80.8%	3,147	-23.4%
GASOIL MINI CALENDAR SWAP	QA	1,033	2,073	-50.2%	1,154	-10.5%
GERMAN POWER BASELOAD CAL MONTH FUT	DEB	1,123	1,559	-28.0%	1,104	1.7%
GROUP THREE ULSD (PLATTS)	A7	0	0	-	0	-
GROUP THREE UNLEAD GAS (P	A9	0	250	-100.0%	0	-
GRP THREE ULSD(PLT)VS HEA	A6	4,688	5,212	-10.1%	6,778	-30.8%
GRP THREE UNL GS (PLT) VS	A8	3,400	3,466	-1.9%	2,810	21.0%
GULF COAST 3% FUEL OIL BA	VZ	0	304	-100.0%	375	-100.0%
GULF COAST JET FUEL CLNDR	GE	2,016	44	4,481.8%	2,274	-11.3%
GULF COAST JET VS NYM 2 H	ME	20,506	20,967	-2.2%	20,297	1.0%
GULF COAST NO.6 FUEL OIL	MF	9,954	13,943	-28.6%	10,409	-4.4%
GULF COAST NO.6 FUEL OIL	MG	70	2,100	-96.7%	105	-33.3%
GULF COAST ULSD CALENDAR	LY	6,272	1,248	402.6%	6,673	-6.0%
GULF COAST ULSD CRACK SPR	GY	240	650	-63.1%	300	-20.0%
HEATING OIL BALMO CLNDR S	1G	100	0	-	100	0.0%
HEATING OIL CRCK SPRD BAL	1H	0	0	-	0	-
HEATING OIL PHY	HOL	0	0	0.0%	0	0.0%
HENRY HUB BASIS SWAP	HB	0	4,960	-100.0%	0	-
HENRY HUB FINANCIAL LAST	NBP	25	0	-	50	-50.0%
HENRY HUB FINANCIAL LAST	TTE	0	0	-	0	-
HENRY HUB INDEX SWAP FUTU	IN	0	6,160	-100.0%	868	-100.0%
HENRY HUB SWAP	NN	672,800	760,130	-11.5%	697,242	-3.5%
HOUSTON SHIP CHANNEL BASI	NH	2,228	6,382	-65.1%	2,618	-14.9%
ICE BRENT DUBAI SWAP	DB	9,561	45,953	-79.2%	11,089	-13.8%
IN DELIVERY MONTH EUA	6T	0	0	-	0	-
INDIANA MISO	FAD	0	0	-	0	-
INDIANA MISO	FTD	1,176	3,600	-67.3%	840	40.0%
INDIANA MISO	PDD	0	165	-100.0%	12	-100.0%
INDIANA MISO	PTD	49	455	-89.2%	49	0.0%
INDONESIAN COAL ICI4	ICI	279	563	-50.4%	383	-27.2%
ISO NEW ENGLAND OFF-PEAK	KI	0	0	-	0	-
ISO NEW ENGLAND PK LMP	NI	0	0	-	0	-
JAPAN C&F NAPHTHA CRACK S	JB	0	54	-100.0%	0	-
JAPAN C&F NAPHTHA SWAP	JA	247	779	-68.3%	302	-18.2%
JAPAN NAPHTHA BALMO SWAP	E6	0	0	-	0	-
JET AV FUEL (P) CAR FM ICE GAS SWAP	1V	0	0	-	0	-
JET CIF NWE VS ICE	JC	10	104	-90.4%	15	-33.3%
JET FUEL CRG CIF NEW VS I	6X	0	0	-	0	-
JET FUEL UP-DOWN BALMO CL	1M	940	1,675	-43.9%	1,095	-14.2%
JKM LNG Futures	JKM	7,280	6,078	19.8%	8,865	-17.9%

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	LA CARB DIESEL (OPIS) SWA	KL	148	27	448.1%	224	-33.9%
	LA CARBOB GASOLINE(OPIS)S	JL	50	0	-	0	-
	LA JET (OPIS) SWAP	JS	747	1,350	-44.7%	622	20.1%
	LLS (ARGUS) CALENDAR SWAP	XA	103	303	-66.0%	114	-9.6%
	LLS (ARGUS) VS WTI SWAP	WJ	4,947	12,606	-60.8%	5,387	-8.2%
	LOS ANGELES CARB GASOLINE	MH	0	0	-	0	-
	MARS (ARGUS) VS WTI SWAP	YX	220	1,470	-85.0%	270	-18.5%
	MARS (ARGUS) VS WTI TRD M	YV	19,386	24,905	-22.2%	13,416	44.5%
	MARS BLEND CRUDE OIL	MB	0	0	-	0	-
	MCCLOSKY ARA ARGS COAL	MTF	18,269	23,144	-21.1%	16,616	9.9%
	MCCLOSKY RCH BAY COAL	MFF	1,195	2,119	-43.6%	1,230	-2.8%
	MGF FUT	MGF	0	10	-100.0%	0	-
	MGN1 SWAP FUT	MGN	70	230	-69.6%	105	-33.3%
	MICHIGAN BASIS	NF	0	1,344	-100.0%	0	-
	MICHIGAN MISO	HMO	0	0	-	0	-
	MICHIGAN MISO	HMW	0	0	-	0	-
	MINI GAS EUROBOB OXY NWE ARGS BALMO	MEB	39	62	-37.1%	334	-88.3%
	MINI RBOB V. EBOBARG NWE BRGS BALMO	MXR	0	0	-	320	-100.0%
	MINI RBOB V. EBOB(ARGUS) NWE BRGS	MXB	996	1,617	-38.4%	1,049	-5.1%
	MJC FUT	MJC	10	60	-83.3%	15	-33.3%
	MNC FUT	MNC	749	2,524	-70.3%	976	-23.3%
	MONT BELVIEU ETHANE 5 DECIMAL	C0	59,473	41,342	43.9%	63,105	-5.8%
	MONT BELVIEU ETHANE OPIS BALMO	8C	67	110	-39.1%	660	-89.8%
	MONT BELVIEU LDH PROPANE 5 DECIMAL	B0	138,595	137,850	0.5%	143,421	-3.4%
	MONT BELVIEU LDH PROPANE OPIS BALMO	8O	827	1,604	-48.4%	3,237	-74.5%
	MONT BELVIEU NATURAL GASOLINE 5 DEC	7Q	31,419	20,809	51.0%	32,741	-4.0%
	MONT BELVIEU NATURAL GASOLINE BALMO	R0	585	685	-14.6%	325	80.0%
	MONT BELVIEU NORMAL BUTANE 5 DECIMAL	D0	69,633	55,674	25.1%	70,165	-0.8%
	MONT BELVIEU NORMAL BUTANE BALMO	8J	1,177	871	35.1%	1,677	-29.8%
	NAT GAS BASIS SWAP	TZ6	0	217	-100.0%	0	-
	NATURAL GAS	XIC	0	0	-	0	-
	NATURAL GAS PEN SWP	NP	222,667	126,842	75.5%	220,836	0.8%
	NEPOOL CNCTCT 5MW D AH O	P3	0	0	-	0	-
	NEPOOL CONECTIC 5MW D AH	P2	0	0	-	0	-
	NEPOOL INTR HUB 5MW D AH	H2	166,368	315,896	-47.3%	180,088	-7.6%
	NEPOOL INTR HUB 5MW D AH	U6	7,615	16,062	-52.6%	8,385	-9.2%
	NEPOOL NE MASS 5MW D AH O	P8	0	2,427	-100.0%	0	-
	NEPOOL NE MASS 5MW D AH P	P7	0	123	-100.0%	0	-
	NEPOOL RHD ISLD 5MW D AH	U4	0	0	-	0	-
	NEPOOL RHODE IL 5MW D AH	U5	0	0	-	0	-
	NEPOOL W CNT MASS 5MW D A	L9	0	0	-	0	-
	NEPOOL W CNTR M 5MW D AH	R6	0	0	-	0	-
	NEW ENGLAND HUB PEAK DAIL	CE	1,155	1,248	-7.5%	1,085	6.5%
	NEW YORK ETHANOL SWAP	EZ	390	2,285	-82.9%	580	-32.8%
	NEW YORK HUB ZONE G PEAK	GN	1,023	1,184	-13.6%	1,071	-4.5%
	NEW YORK HUB ZONE J PEAK	JN	264	1,120	-76.4%	248	6.5%
	NGPL MID-CONTINENT	NL	320	3,664	-91.3%	520	-38.5%
	NGPL TEX/OK	PD	0	3,855	-100.0%	120	-100.0%
	N ILLINOIS HUB DAILY	UD	10	68	-85.3%	10	0.0%
	N ILLINOIS HUB MTHLY	UM	0	0	-	0	-
	NO 2 UP-DOWN SPREAD CALEN	UT	0	100	-100.0%	0	-
	NORTHEN NATURAL GAS DEMAR	PE	0	0	-	0	-

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<b>Energy Futures</b>						
NORTHERN NATURAL GAS VENTU	PF	0	0	-	0	-
NORTHWEST ROCKIES BASIS S	NR	62	2,123	-97.1%	122	-49.2%
N ROCKIES PIPE SWAP	XR	0	0	-	0	-
NY1% VS GC SPREAD SWAP	VR	500	1,765	-71.7%	480	4.2%
NY 3.0% FUEL OIL (PLATTS	H1	0	0	-	0	-
NY HARBOR 1% FUEL OIL BAL	VK	0	0	-	0	-
NY HARBOR HEAT OIL SWP	MP	12,206	7,974	53.1%	11,162	9.4%
NY HARBOR LOW SULPUR GAS 1000MBBL	NLS	590	840	-29.8%	615	-4.1%
NY HARBOR RESIDUAL FUEL 1	MM	1,032	2,434	-57.6%	1,152	-10.4%
NY HARBOR RESIDUAL FUEL C	ML	0	0	-	0	-
NYH NO 2 CRACK SPREAD CAL	HK	2,964	2,680	10.6%	2,358	25.7%
NYISO CAPACITY	LHV	51	316	-83.9%	62	-17.7%
NYISO CAPACITY	NNC	0	3	-100.0%	0	-
NYISO CAPACITY	NRS	0	40	-100.0%	0	-
NYISO J	KJ	0	0	-	0	-
NYISO J OFF-PEAK	KK	0	0	-	0	-
NYISO ZONE A 5MW D AH O P	K4	0	9,344	-100.0%	784	-100.0%
NYISO ZONE A 5MW D AH PK	K3	0	0	0.0%	0	-
NYISO ZONE G 5MW D AH O P	D2	60,795	372,789	-83.7%	79,219	-23.3%
NYISO ZONE G 5MW D AH PK	T3	8,620	20,197	-57.3%	9,302	-7.3%
NYISO ZONE J 5MW D AH O P	D4	0	14,016	-100.0%	1,176	-100.0%
NYISO ZONE J 5MW D AH PK	D3	0	2,056	-100.0%	176	-100.0%
NYMEX ALUMINUM FUTURES	AN	0	384	-100.0%	0	-
NYMEX ULSD VS NYMEX HO	UY	0	550	-100.0%	0	-
NY ULSD (ARGUS) VS HEATING OIL	7Y	1,247	1,024	21.8%	1,646	-24.2%
ONEOK OKLAHOMA NG BASIS	8X	0	0	-	0	-
ONTARIO POWER SWAPS	OFD	0	0	-	0	-
ONTARIO POWER SWAPS	OPD	0	0	-	0	-
ONTARIO POWER SWAPS	OPM	0	0	-	0	-
PANHANDLE BASIS SWAP FUTU	PH	300	1,435	-79.1%	330	-9.1%
PANHANDLE PIPE SWAP	XH	0	0	-	0	-
PERMIAN BASIS SWAP	PM	279	3,356	-91.7%	549	-49.2%
PETROCHEMICALS	22	135	129	4.7%	160	-15.6%
PETROCHEMICALS	32	30	83	-63.9%	31	-3.2%
PETROCHEMICALS	3NA	11	8	37.5%	15	-26.7%
PETROCHEMICALS	51	3	24	-87.5%	0	-
PETROCHEMICALS	81	0	0	-	0	-
PETROCHEMICALS	8I	6,448	6,074	6.2%	6,894	-6.5%
PETROCHEMICALS	91	759	1,029	-26.2%	817	-7.1%
PETROCHEMICALS	MAA	0	0	-	0	-
PETROCHEMICALS	MAE	2,108	1,323	59.3%	2,185	-3.5%
PETROCHEMICALS	MAS	479	358	33.8%	518	-7.5%
PETROCHEMICALS	MBE	320	575	-44.3%	140	128.6%
PETROCHEMICALS	MNB	1,052	1,544	-31.9%	1,236	-14.9%
PETROCHEMICALS	MPS	1,395	590	136.4%	1,533	-9.0%
PETRO CRCKS & SPRDS ASIA	JNC	0	0	-	0	-
PETRO CRCKS & SPRDS ASIA	STI	0	0	-	0	-
PETRO CRCKS & SPRDS ASIA	STR	40	390	-89.7%	60	-33.3%
PETRO CRCKS & SPRDS ASIA	STS	275	182	51.1%	300	-8.3%
PETRO CRCKS & SPRDS NA	CRB	13,608	6,381	113.3%	15,566	-12.6%
PETRO CRCKS & SPRDS NA	EXR	1,135	3,376	-66.4%	1,289	-11.9%
PETRO CRCKS & SPRDS NA	FOC	220	920	-76.1%	280	-21.4%



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	Commodity	Open Interest NOV 2020	Open Interest NOV 2019	% CHG	Open Interest OCT 2020	% CHG
Energy Futures						
PETRO CRCKS & SPRDS NA	GBB	925	125	640.0%	130	611.5%
PETRO CRCKS & SPRDS NA	GCC	0	0	-	0	-
PETRO CRCKS & SPRDS NA	GCI	244	2,203	-88.9%	507	-51.9%
PETRO CRCKS & SPRDS NA	GCM	0	200	-100.0%	0	-
PETRO CRCKS & SPRDS NA	GCU	2,450	11,332	-78.4%	3,111	-21.2%
PETRO CRCKS & SPRDS NA	GFC	0	0	-	0	-
PETRO CRCKS & SPRDS NA	HOB	7,110	10,904	-34.8%	7,662	-7.2%
PETRO CRCKS & SPRDS NA	MFR	0	0	-	0	-
PETRO CRCKS & SPRDS NA	NFG	0	0	-	0	-
PETRO CRCKS & SPRDS NA	NYF	0	100	-100.0%	0	-
PETRO CRCKS & SPRDS NA	RBB	7,554	16,980	-55.5%	8,923	-15.3%
PETRO CRCKS & SPRDS NA	RVG	4,700	14,815	-68.3%	5,375	-12.6%
PETRO CRCKS & SPRDS NA	SF3	0	133	-100.0%	0	-
PETRO CRK&SPRD EURO	1NB	200	770	-74.0%	300	-33.3%
PETRO CRK&SPRD EURO	1ND	0	0	-	0	-
PETRO CRK&SPRD EURO	43	0	0	-	9	-100.0%
PETRO CRK&SPRD EURO	BFR	0	0	-	0	-
PETRO CRK&SPRD EURO	BOB	750	3,224	-76.7%	974	-23.0%
PETRO CRK&SPRD EURO	EOB	0	40	-100.0%	0	-
PETRO CRK&SPRD EURO	EPN	964	1,384	-30.3%	1,000	-3.6%
PETRO CRK&SPRD EURO	EVC	64	2,445	-97.4%	96	-33.3%
PETRO CRK&SPRD EURO	FBT	0	0	-	0	-
PETRO CRK&SPRD EURO	FVB	0	30	-100.0%	0	-
PETRO CRK&SPRD EURO	GCB	0	0	-	0	-
PETRO CRK&SPRD EURO	GOC	2	14	-85.7%	3	-33.3%
PETRO CRK&SPRD EURO	MGB	0	60	-100.0%	0	-
PETRO CRK&SPRD EURO	MUD	0	70	-100.0%	0	-
PETRO CRK&SPRD EURO	NBB	0	0	-	0	-
PETRO CRK&SPRD EURO	NOB	457	1,102	-58.5%	498	-8.2%
PETRO CRK&SPRD EURO	SFB	0	0	-	0	-
PETROLEUM PRODUCTS	1NM	100	20	400.0%	120	-16.7%
PETROLEUM PRODUCTS	EWG	475	2,545	-81.3%	625	-24.0%
PETROLEUM PRODUCTS	H5F	496	5,168	-90.4%	244	103.3%
PETROLEUM PRODUCTS	JCC	1,550	700	121.4%	1,550	0.0%
PETROLEUM PRODUCTS	MME	0	0	-	0	-
PETROLEUM PRODUCTS	MPE	0	0	-	0	-
PETROLEUM PRODUCTS	NCC	0	10	-100.0%	0	-
PETROLEUM PRODUCTS	R5E	0	0	-	0	-
PETROLEUM PRODUCTS	R5F	38	15	153.3%	50	-24.0%
PETROLEUM PRODUCTS	S53	32	50	-36.0%	36	-11.1%
PETROLEUM PRODUCTS	UCS	65	0	-	65	0.0%
PETROLEUM PRODUCTS	UP5	66	1,125	-94.1%	99	-33.3%
PETROLEUM PRODUCTS	VU	0	300	-100.0%	295	-100.0%
PETROLEUM PRODUCTS ASIA	E6M	0	20	-100.0%	0	-
PETROLEUM PRODUCTS ASIA	MJN	390	680	-42.6%	608	-35.9%
PETROLEUM PRODUCTS ASIA	MSB	0	0	-	0	-
PETRO OUTRIGHT EURO	OB	50	282	-82.3%	83	-39.8%
PETRO OUTRIGHT EURO	OC	0	0	-	0	-
PETRO OUTRIGHT EURO	OD	277	1,870	-85.2%	351	-21.1%
PETRO OUTRIGHT EURO	OE	0	0	-	0	-
PETRO OUTRIGHT EURO	OF	19	198	-90.4%	20	-5.0%
PETRO OUTRIGHT EURO	1T	0	6	-100.0%	0	-

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	Commodity	Open Interest NOV 2020	Open Interest NOV 2019	% CHG	Open Interest OCT 2020	% CHG
<b>Energy Futures</b>						
PETRO OUTRIGHT EURO	33	0	0	-	0	-
PETRO OUTRIGHT EURO	5L	0	8	-100.0%	0	-
PETRO OUTRIGHT EURO	63	0	0	-	0	-
PETRO OUTRIGHT EURO	7I	0	46	-100.0%	25	-100.0%
PETRO OUTRIGHT EURO	7R	0	70	-100.0%	11	-100.0%
PETRO OUTRIGHT EURO	88	0	0	-	0	-
PETRO OUTRIGHT EURO	CBB	0	0	-	5	-100.0%
PETRO OUTRIGHT EURO	CGB	0	0	-	0	-
PETRO OUTRIGHT EURO	CPB	15	225	-93.3%	147	-89.8%
PETRO OUTRIGHT EURO	EFF	0	19	-100.0%	0	-
PETRO OUTRIGHT EURO	EFM	0	2	-100.0%	0	-
PETRO OUTRIGHT EURO	ENS	6	56	-89.3%	9	-33.3%
PETRO OUTRIGHT EURO	EWN	12	282	-95.7%	12	0.0%
PETRO OUTRIGHT EURO	FLB	0	0	-	0	-
PETRO OUTRIGHT EURO	GES	0	0	-	0	-
PETRO OUTRIGHT EURO	GNO	0	0	-	0	-
PETRO OUTRIGHT EURO	H5G	184	945	-80.5%	276	-33.3%
PETRO OUTRIGHT EURO	JFB	0	0	-	0	-
PETRO OUTRIGHT EURO	M1B	3,637	1,293	181.3%	3,401	6.9%
PETRO OUTRIGHT EURO	M35	0	5	-100.0%	0	-
PETRO OUTRIGHT EURO	MBB	0	5	-100.0%	0	-
PETRO OUTRIGHT EURO	MBN	1,231	1,772	-30.5%	1,262	-2.5%
PETRO OUTRIGHT EURO	MEF	250	377	-33.7%	270	-7.4%
PETRO OUTRIGHT EURO	R53	12	167	-92.8%	18	-33.3%
PETRO OUTRIGHT EURO	R5B	0	0	-	0	-
PETRO OUTRIGHT EURO	R5M	1,038	927	12.0%	1,020	1.8%
PETRO OUTRIGHT EURO	R5O	2,948	1,714	72.0%	2,848	3.5%
PETRO OUTRIGHT EURO	RBM	0	0	-	0	-
PETRO OUTRIGHT EURO	S5B	0	0	-	0	-
PETRO OUTRIGHT EURO	S5F	398	108	268.5%	374	6.4%
PETRO OUTRIGHT EURO	S5M	3,381	954	254.4%	3,479	-2.8%
PETRO OUTRIGHT EURO	S5O	2,419	298	711.7%	2,197	10.1%
PETRO OUTRIGHT EURO	SMU	20	325	-93.8%	30	-33.3%
PETRO OUTRIGHT EURO	T0	0	6	-100.0%	0	-
PETRO OUTRIGHT EURO	T2B	0	0	-	0	-
PETRO OUTRIGHT EURO	TMB	0	0	-	0	-
PETRO OUTRIGHT EURO	ULB	400	0	-	0	-
PETRO OUTRIGHT EURO	UNB	0	0	-	0	-
PETRO OUTRIGHT EURO	V0	0	0	-	0	-
PETRO OUTRIGHT EURO	X0	0	0	-	0	-
PETRO OUTRIGHT NA	AB6	50	0	-	440	-88.6%
PETRO OUTRIGHT NA	BCR	673	0	-	710	-5.2%
PETRO OUTRIGHT NA	DBB	0	0	-	0	-
PETRO OUTRIGHT NA	FCB	0	0	-	0	-
PETRO OUTRIGHT NA	FOM	0	0	-	0	-
PETRO OUTRIGHT NA	H5B	0	0	-	0	-
PETRO OUTRIGHT NA	JE	585	180	225.0%	540	8.3%
PETRO OUTRIGHT NA	JET	790	1,850	-57.3%	1,265	-37.5%
PETRO OUTRIGHT NA	JTB	0	250	-100.0%	90	-100.0%
PETRO OUTRIGHT NA	MBL	135	314	-57.0%	172	-21.5%
PETRO OUTRIGHT NA	MEN	30	78	-61.5%	0	-
PETRO OUTRIGHT NA	MEO	1,582	1,958	-19.2%	1,683	-6.0%



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Commodity		Open Interest NOV 2020	Open Interest NOV 2019	% CHG	Open Interest OCT 2020	% CHG
<b>Energy Futures</b>						
PETRO OUTRIGHT NA	MFD	10	138	-92.8%	15	-33.3%
PETRO OUTRIGHT NA	MMF	0	4	-100.0%	0	-
PETRO OUTRIGHT NA	XER	0	0	-	0	-
PJM AD HUB 5MW REAL TIME	V3	52,600	133,936	-60.7%	58,615	-10.3%
PJM AD HUB 5MW REAL TIME	Z9	3,479	13,748	-74.7%	4,319	-19.4%
PJM ATSI ELEC	MOD	0	0	-	0	-
PJM ATSI ELEC	MPD	0	0	-	0	-
PJM BGE DA OFF-PEAK	R3	0	0	-	0	-
PJM BGE DA PEAK	E3	0	0	-	0	-
PJM COMED 5MW D AH O PK	D9	0	0	-	0	-
PJM COMED 5MW D AH PK	D8	0	0	-	0	-
PJM DAILY	JD	286	960	-70.2%	286	0.0%
PJM DAYTON DA OFF-PEAK	R7	0	46,720	-100.0%	3,920	-100.0%
PJM DAYTON DA PEAK	D7	0	2,570	-100.0%	220	-100.0%
PJM NI HUB 5MW REAL TIME	B3	2,670	4,559	-41.4%	2,770	-3.6%
PJM NI HUB 5MW REAL TIME	B6	48,600	77,752	-37.5%	50,605	-4.0%
PJM NILL DA OFF-PEAK	L3	0	0	0.0%	0	-
PJM NILL DA PEAK	N3	0	0	0.0%	0	-
PJM OFF-PEAK LMP SWAP FUT	JP	0	0	-	0	-
PJM PECO ZONE5MW PEAK CAL MO DAY AH	4N	0	820	-100.0%	0	-
PJM PSEG DA OFF-PEAK	W6	0	20,225	-100.0%	0	-
PJM PSEG DA PEAK	L6	0	1,025	-100.0%	0	-
PJM WESTH DA OFF-PEAK	E4	0	48,364	-100.0%	784	-100.0%
PJM WESTHDA PEAK	J4	0	2,634	-100.0%	44	-100.0%
PJM WESTH RT OFF-PEAK	N9	313,680	479,163	-34.5%	323,705	-3.1%
PJM WESTH RT PEAK	L1	25,713	50,038	-48.6%	28,573	-10.0%
PLASTICS	PGP	3,240	3,804	-14.8%	3,283	-1.3%
PREMIUM UNLD 10P FOB MED	3G	0	71	-100.0%	21	-100.0%
PREMIUM UNLEAD 10PPM FOB	8G	0	0	-	0	-
PREM UNL GAS 10PPM RDM FOB BALMO	7N	0	0	-	0	-
PREM UNL GAS 10PPM RDM FOB SWAP	7L	0	0	-	0	-
PROPANE NON-LDH MB (OPIS) BALMO SWP	1S	850	538	58.0%	2,375	-64.2%
PROPANE NON-LDH MT. BEL (OPIS) SWP	1R	55,853	59,948	-6.8%	60,165	-7.2%
RBOB CALENDAR SWAP	RL	13,845	13,954	-0.8%	13,382	3.5%
RBOB CRACK SPREAD	RM	2,120	6,071	-65.1%	2,635	-19.5%
RBOB CRACK SPREAD BALMO S	1E	0	0	-	0	-
RBOB GASOLINE BALMO CLNDR	1D	251	1,587	-84.2%	229	9.6%
RBOB PHY	RBL	0	0	0.0%	0	0.0%
RBOB SPREAD (PLATTS) SWAP	RI	0	0	-	0	-
RBOB VS HEATING OIL SWAP	RH	450	75	500.0%	575	-21.7%
SAN JUAN BASIS SWAP	NJ	0	614	-100.0%	0	-
SAN JUAN PIPE SWAP	XX	0	0	-	0	-
SINGAPORE 180CST BALMO	BS	0	0	-	0	-
SINGAPORE 380CST BALMO	BT	0	78	-100.0%	0	-
SINGAPORE 380CST FUEL OIL	SE	395	2,882	-86.3%	401	-1.5%
SINGAPORE FUEL 180CST CAL	UA	0	169	-100.0%	18	-100.0%
SINGAPORE FUEL OIL SPREAD	SD	30	110	-72.7%	45	-33.3%
SINGAPORE GASOIL	MAF	250	3,081	-91.9%	197	26.9%
SINGAPORE GASOIL	MTB	0	65	-100.0%	0	-
SINGAPORE GASOIL	MTS	265	2,908	-90.9%	287	-7.7%
SINGAPORE GASOIL	SBM	5	0	-	79	-93.7%
SINGAPORE GASOIL	STZ	0	0	-	0	-

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Commodity		Open Interest NOV 2020	Open Interest NOV 2019	% CHG	Open Interest OCT 2020	% CHG
<b>Energy Futures</b>						
SINGAPORE GASOIL CALENDAR	GDH	0	0	-	0	-
SINGAPORE GASOIL CALENDAR	GDL	0	0	-	0	-
SINGAPORE GASOIL CALENDAR	GHS	0	0	-	0	-
SINGAPORE GASOIL CALENDAR	MGO	0	0	-	0	-
SINGAPORE GASOIL CALENDAR	MSG	1,498	517	189.7%	1,807	-17.1%
SINGAPORE GASOIL CALENDAR	SGG	0	0	-	0	-
SINGAPORE GASOIL SWAP	SG	2,548	1,464	74.0%	1,375	85.3%
SINGAPORE GASOIL VS ICE	GA	1,140	6,838	-83.3%	1,710	-33.3%
SINGAPORE JET KERO BALMO	BX	0	0	-	0	-
SINGAPORE JET KERO GASOIL	RK	575	900	-36.1%	575	0.0%
SINGAPORE JET KEROSENE SW	KS	615	1,630	-62.3%	765	-19.6%
SINGAPORE JET KERO VS. GASOIL BALMO	ZO	0	0	-	0	-
SINGAPORE MOGAS 92 UNLEADED BALMO	1P	0	0	-	0	-
SINGAPORE MOGAS 92 UNLEADED SWP	1N	3,088	8,758	-64.7%	4,898	-37.0%
SINGAPORE NAPHTHA SWAP	SP	0	0	-	0	-
SING FUEL	MSD	0	25	-100.0%	0	-
SOUTH STAR TEX OKLHM KNS	8Z	0	0	-	0	-
Sumas Basis Swap	NK	0	641	-100.0%	0	-
TC2 ROTTERDAM TO USAC 37K	TM	30	469	-93.6%	45	-33.3%
TC5 RAS TANURA TO YOKOHAM	TH	150	1,275	-88.2%	225	-33.3%
TCO BASIS SWAP	TC	0	1,344	-100.0%	0	-
TD3 MEG TO JAPAN 250K MT	TL	6,251	12,109	-48.4%	6,992	-10.6%
TENNESSEE ZONE 0 BASIS SW	NQ	0	0	-	0	-
Tetco STX Basis	TX	0	0	-	0	-
TEXAS EASTERN ZONE M-3 BA	NX	909	976	-6.9%	1,179	-22.9%
TEXAS GAS ZONE1 NG BASIS	9F	0	0	-	0	-
Transco Zone 3 Basis	CZ	0	0	-	0	-
TRANSCO ZONE4 BASIS SWAP	TR	125	1,671	-92.5%	250	-50.0%
TRANSCO ZONE 6 BASIS SWAP	NZ	0	0	-	0	-
UCM FUT	UCM	0	0	-	0	-
UK NBP NAT GAS CAL MTH FUT	UKG	150	360	-58.3%	120	25.0%
ULSD 10PPM CIF MED VS ICE	Z7	0	0	-	0	-
ULSD UP-DOWN BALMO SWP	1L	5,595	4,785	16.9%	2,912	92.1%
UP DOWN GC ULSD VS NMX HO	LT	51,628	58,374	-11.6%	49,899	3.5%
WAHA BASIS	NW	31	751	-95.9%	61	-49.2%
WESTERN RAIL DELIVERY PRB	QP	0	0	-	0	-
WTI-BRENT BULLET SWAP	BY	0	762	-100.0%	0	0.0%
WTI-BRENT CALENDAR SWAP	BK	85,068	175,151	-51.4%	84,354	0.8%
WTI CALENDAR	CS	169,670	182,194	-6.9%	153,627	10.4%
WTI MIDLAND CRUDE OIL	WTL	50	0	-	50	0.0%
WTS (ARGUS) VS WTI SWAP	FF	66,313	65,152	1.8%	70,794	-6.3%
WTS (ARGUS) VS WTI TRD MT	FH	10,387	3,776	175.1%	10,315	0.7%
<b>Energy Options</b>						
BRENT 1 MONTH CAL	AA	0	0	-	0	-
BRENT CALENDAR SWAP	BA	1,756	9,189	-80.9%	1,779	-1.3%
BRENT CRUDE OIL 12 M CSO	9Y	0	0	-	0	-
BRENT CRUDE OIL 1 M CSO	9C	5,700	2,000	185.0%	4,800	18.8%
BRENT CRUDE OIL 6 M CSO	9L	0	0	-	0	-
BRENT OIL LAST DAY	BE	105,002	12,140	764.9%	99,121	5.9%
BRENT OIL LAST DAY	BZO	58,040	72,491	-19.9%	49,585	17.1%
BRENT OIL LAST DAY	OS	0	0	-	0	-
COAL API2 INDEX	CLA	0	335	-100.0%	0	-

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Commodity		Open Interest NOV 2020	Open Interest NOV 2019	% CHG	Open Interest OCT 2020	% CHG
<b>Energy Options</b>						
COAL API2 INDEX	CQA	0	175	-100.0%	0	-
COAL API4 INDEX	RLA	0	0	-	0	-
COAL API4 INDEX	RQA	0	0	-	0	-
COAL SWAP	CPF	0	0	-	0	-
COAL SWAP	RPF	0	0	-	0	-
CRUDE OIL	6Y	50	150	-66.7%	0	-
CRUDE OIL 1MO	WA	435,800	368,625	18.2%	437,575	-0.4%
CRUDE OIL APO	AO	291,110	377,796	-22.9%	252,780	15.2%
CRUDE OIL CALNDR STRIP	6F	170	200	-15.0%	50	240.0%
CRUDE OIL OUTRIGHTS	AH	0	0	-	0	-
CRUDE OIL OUTRIGHTS	WCI	0	0	-	0	-
CRUDE OIL PHY	CD	0	0	-	0	-
CRUDE OIL PHY	LC	18,970	49,763	-61.9%	36,627	-48.2%
CRUDE OIL PHY	LO	1,365,803	1,682,390	-18.8%	1,880,731	-27.4%
CRUDE OIL PHY	LO1	3,480	8,166	-57.4%	2,775	25.4%
CRUDE OIL PHY	LO2	170	2,873	-94.1%	460	-63.0%
CRUDE OIL PHY	LO3	107	318	-66.4%	10	970.0%
CRUDE OIL PHY	LO4	6	0	-	0	-
CRUDE OIL PHY	LO5	0	0	0.0%	0	0.0%
ELEC FINSETTLED	PJN	43	0	-	43	0.0%
ETHANOL	CE1	0	0	-	0	-
ETHANOL	CE3	0	0	-	0	-
ETHANOL SWAP	CVR	10,212	12,900	-20.8%	11,644	-12.3%
ETHANOL SWAP	GVR	130	60	116.7%	195	-33.3%
FREIGHT MARKETS	TDT	0	1,200	-100.0%	0	-
HEATING OIL CRK SPD AVG PRICE OPTIONS	3W	1,200	0	-	0	-
HEATING OIL PHY	LB	550	39	1,310.3%	644	-14.6%
HEATING OIL PHY	OH	14,287	26,565	-46.2%	20,817	-31.4%
HENRY HUB FINANCIAL LAST	E7	36,226	11,259	221.8%	37,478	-3.3%
HO 1 MONTH CLNDR OPTIONS	FA	0	400	-100.0%	0	-
LLS CRUDE OIL	WJO	0	0	-	0	-
LLS CRUDE OIL	WTO	1,200	0	-	1,200	0.0%
LLS CRUDE OIL	YVO	0	0	-	0	-
MCCLOSKEY ARA ARGS COAL	MTO	4,897	350	1,299.1%	4,467	9.6%
MCCLOSKEY RCH BAY COAL	MFO	50	35	42.9%	50	0.0%
NATURAL GAS 1 M CSO FIN	G4	75,360	214,377	-64.8%	97,325	-22.6%
NATURAL GAS 2 M CSO FIN	G2	4,700	10,125	-53.6%	1,500	213.3%
NATURAL GAS 3 M CSO FIN	G3	0	0	-	0	-
NATURAL GAS 5 M CSO FIN	G5	1,000	3,600	-72.2%	1,000	0.0%
NATURAL GAS 6 M CSO FIN	G6	15,900	47,700	-66.7%	15,400	3.2%
NATURAL GAS OPT	TFO	70,650	0	-	75,160	-6.0%
NATURAL GAS OPTION ON CALENDAR STRP	6J	26,440	21,524	22.8%	24,440	8.2%
NATURAL GAS PHY	KD	0	0	0.0%	0	0.0%
NATURAL GAS PHY	LN	2,400,208	1,799,989	33.3%	2,424,057	-1.0%
NATURAL GAS PHY	ON	41,206	116,767	-64.7%	39,399	4.6%
NATURAL GAS SUMMER STRIP	4D	400	0	-	400	0.0%
NATURAL GAS WINTER STRIP	6I	0	0	-	0	-
N ROCKIES PIPE SWAP	ZR	0	4,658	-100.0%	0	-
NY HARBOR HEAT OIL SWP	AT	6,300	9,157	-31.2%	7,376	-14.6%
NYISO ZONE G 5MW PEAK OPTIONS	9U	0	0	-	0	-
PANHANDLE PIPE SWAP	PU	0	0	-	0	-
PETROCHEMICALS	4H	562	2,141	-73.8%	639	-12.1%

## NYMEX/COMEX Exchange Open Interest Report - Monthly

Commodity	Open Interest NOV 2020	Open Interest NOV 2019	% CHG	Open Interest OCT 2020	% CHG
<b>Energy Options</b>					
PETROCHEMICALS 4J	620	150	313.3%	630	-1.6%
PETROCHEMICALS 4K	520	260	100.0%	270	92.6%
PETROCHEMICALS CPR	0	20	-100.0%	0	-
PETRO OUTRIGHT EURO 8H	0	0	-	0	-
PETRO OUTRIGHT EURO BCO	4	24	-83.3%	6	-33.3%
PETRO OUTRIGHT NA 1N5	0	0	-	100	-100.0%
PETRO OUTRIGHT NA DAP	645	632	2.1%	780	-17.3%
PJM WES HUB PEAK CAL MTH 6OA	1,510	1,540	-1.9%	1,510	0.0%
PJM WES HUB PEAK CAL MTH JOA	0	0	-	0	-
PJM WES HUB PEAK LMP 50MW PMA	512	512	0.0%	512	0.0%
RBOB 1MO CAL SPD OPTIONS ZA	0	0	-	0	-
RBOB CALENDAR SWAP RA	1,416	260	444.6%	1,518	-6.7%
RBOB CRACK RX	0	0	-	0	-
RBOB PHY OB	8,199	5,893	39.1%	8,977	-8.7%
RBOB PHY RF	0	0	-	0	-
ROTTERDAM 3.5%FUEL OIL CL Q6	0	0	-	0	-
SAN JUAN PIPE SWAP PJ	0	3,880	-100.0%	0	-
SHORT TERM C15	0	0	-	0	-
SHORT TERM U11	0	0	-	0	-
SHORT TERM U12	0	0	-	0	-
SHORT TERM U13	0	0	-	0	-
SHORT TERM U14	0	0	-	0	-
SHORT TERM U15	0	0	-	0	-
SHORT TERM U22	0	0	-	0	-
SHORT TERM U23	0	0	-	0	-
SHORT TERM U24	0	0	-	0	-
SHORT TERM U25	0	0	-	0	-
SHORT TERM U26	0	0	-	0	-
SHORT TERM NATURAL GAS U01	0	0	-	0	-
SHORT TERM NATURAL GAS U02	0	500	-100.0%	100	-100.0%
SHORT TERM NATURAL GAS U03	0	0	-	0	-
SHORT TERM NATURAL GAS U04	0	0	-	0	-
SHORT TERM NATURAL GAS U05	0	0	-	0	-
SHORT TERM NATURAL GAS U06	0	0	-	0	-
SHORT TERM NATURAL GAS U07	0	0	-	0	-
SHORT TERM NATURAL GAS U08	0	0	-	0	-
SHORT TERM NATURAL GAS U09	0	0	-	0	-
SHORT TERM NATURAL GAS U10	0	0	-	0	-
SHORT TERM NATURAL GAS U16	0	0	-	0	-
SHORT TERM NATURAL GAS U17	0	0	-	0	-
SHORT TERM NATURAL GAS U18	0	0	-	0	-
SHORT TERM NATURAL GAS U19	0	0	-	0	-
SHORT TERM NATURAL GAS U20	0	0	-	0	-
SHORT TERM NATURAL GAS U21	0	0	-	0	-
SHORT TERM NATURAL GAS U27	0	0	-	0	-
SHORT TERM NATURAL GAS U28	0	0	-	0	-
SHORT TERM NATURAL GAS U29	0	0	0.0%	0	-
SHORT TERM NATURAL GAS U30	0	0	-	0	-
SHORT TERM NATURAL GAS U31	0	0	-	0	-
SINGAPORE GASOIL CALENDAR M2	0	0	-	0	-
SINGAPORE JET FUEL CALEND N2	0	0	-	0	-
WTI-BRENT BULLET SWAP BV	146,780	110,550	32.8%	130,995	12.1%

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Commodity		Open Interest NOV 2020	Open Interest NOV 2019	% CHG	Open Interest OCT 2020	% CHG
<b>Energy Options</b>						
WTI CRUDE OIL 1 M CSO FI	7A	252,875	147,325	71.6%	235,520	7.4%
<b>Metals Futures</b>						
COMEX GOLD	GC	541,982	674,822	-19.7%	542,015	0.0%
NYMEX HOT ROLLED STEEL	HR	20,348	17,206	18.3%	20,539	-0.9%
NYMEX PLATINUM	PL	55,796	90,461	-38.3%	52,048	7.2%
PALLADIUM	PA	9,802	25,311	-61.3%	10,175	-3.7%
URANIUM	UX	303	2,406	-87.4%	303	0.0%
COMEX SILVER	SI	152,747	204,547	-25.3%	154,235	-1.0%
COMEX E-Mini GOLD	QO	2,643	2,356	12.2%	2,982	-11.4%
COMEX E-Mini SILVER	QI	608	213	185.4%	825	-26.3%
COMEX COPPER	HG	237,890	209,490	13.6%	232,502	2.3%
COMEX MINY COPPER	QC	262	101	159.4%	294	-10.9%
ALUMINUM	A38	0	18	-100.0%	0	-
ALUMINUM	AEP	11,468	15,301	-25.1%	13,674	-16.1%
ALUMINUM	ALA	863	870	-0.8%	776	11.2%
ALUMINUM	ALI	160	287	-44.3%	190	-15.8%
ALUMINUM	AUP	33,892	27,647	22.6%	35,797	-5.3%
ALUMINUM	CUP	0	0	-	0	-
ALUMINUM	EDP	11,738	12,937	-9.3%	11,768	-0.3%
ALUMINUM	MJP	3,830	4,490	-14.7%	4,475	-14.4%
COPPER	HGS	16,521	11,064	49.3%	17,294	-4.5%
FERROUS PRODUCTS	BUS	3,729	2,292	62.7%	3,079	21.1%
GOLD	4GC	10	0	-	74	-86.5%
GOLD	SGC	217	80	171.3%	299	-27.4%
GOLD	SGU	403	260	55.0%	675	-40.3%
Gold Kilo	GCK	0	0	-	0	-
HOT ROLLED COIL STEEL FUTURES	EHR	842	0	-	715	17.8%
IRON ORE 62 CHINA PLATTS FUTURES	PIO	0	0	-	0	-
IRON ORE 62 CHINA TSI FUTURES	TIO	0	4,753	-100.0%	0	-
IRON ORE CHINA	TIO	1,939	0	-	2,455	-21.0%
LNDN ZINC	ZNC	0	0	-	0	-
METALS	HDG	5	0	-	10	-50.0%
MICRO GOLD	MGC	30,984	21,830	41.9%	80,385	-61.5%
SILVER	SIL	4,601	2,429	89.4%	5,329	-13.7%
<b>Metals Options</b>						
ALUMINUM	ALO	40	0	-	60	-33.3%
COMEX COPPER	HX	13,577	31,301	-56.6%	12,696	6.9%
COMEX GOLD	OG	939,188	1,244,841	-24.6%	1,161,137	-19.1%
COMEX SILVER	SO	89,802	117,351	-23.5%	119,215	-24.7%
COPPER	H1E	0	135	-100.0%	0	-
COPPER	H2E	0	60	-100.0%	2	-100.0%
COPPER	H3E	0	0	-	0	-
COPPER	H4E	0	0	-	0	-
COPPER	H5E	0	0	0.0%	0	-
GOLD	OG1	11,588	12,261	-5.5%	5,341	117.0%
GOLD	OG2	4,514	6,113	-26.2%	4,107	9.9%
GOLD	OG3	1,537	3,079	-50.1%	1,317	16.7%
GOLD	OG4	10	0	-	0	-
GOLD	OG5	0	0	0.0%	0	0.0%
HOT ROLLED COIL STEEL CALL OPTION	HRO	0	350	-100.0%	0	-

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	Commodity	Open Interest NOV 2020	Open Interest NOV 2019	% CHG	Open Interest OCT 2020	% CHG
<b>Metals Options</b>						
HOT ROLLED COIL STEEL PUT OPTION	HRO	0	150	-100.0%	0	-
IRON ORE 62 CHINA TSI CALL OPTION	ICT	0	870	-100.0%	0	-
IRON ORE 62 CHINA TSI PUT OPTION	ICT	0	410	-100.0%	0	-
IRON ORE CHINA	ICT	2,040	0	-	2,420	-15.7%
NYMEX HOT ROLLED STEEL	HRO	975	0	-	825	18.2%
NYMEX PLATINUM	PO	2,582	5,555	-53.5%	2,626	-1.7%
PALLADIUM	PAO	637	1,417	-55.0%	1,713	-62.8%
SILVER	SO1	819	1,139	-28.1%	405	102.2%
SILVER	SO2	242	672	-64.0%	235	3.0%
SILVER	SO3	70	12	483.3%	125	-44.0%
SILVER	SO4	0	0	-	0	-
SILVER	SO5	0	0	0.0%	0	0.0%
<b>TOTAL FUTURES GROUP</b>						
Ag Products Futures		0	0	-	0	-
Energy Futures		7,875,079	9,354,196	-15.8%	7,851,592	0.3%
Metals Futures		1,143,583	1,331,171	-14.1%	1,192,913	-4.1%
<b>TOTAL FUTURES</b>		<b>9,018,662</b>	<b>10,685,367</b>	<b>-15.6%</b>	<b>9,044,505</b>	<b>-0.3%</b>
<b>TOTAL OPTIONS GROUP</b>						
Energy Options		5,410,766	5,141,003	5.2%	5,910,445	-8.5%
Metals Options		1,067,621	1,425,716	-25.1%	1,312,224	-18.6%
<b>TOTAL OPTIONS</b>		<b>6,478,387</b>	<b>6,566,719</b>	<b>-1.3%</b>	<b>7,222,669</b>	<b>-10.3%</b>
<b>TOTAL COMBINED</b>						
Ag Products		0	0	-	0	-
Energy		13,285,845	14,495,199	-8.3%	13,762,037	-3.5%
Metals		2,211,204	2,756,887	-19.8%	2,505,137	-11.7%
<b>GRAND TOTAL</b>		<b>15,497,049</b>	<b>17,252,086</b>	<b>-10.2%</b>	<b>16,267,174</b>	<b>-4.7%</b>