



**ICE FUTURES EUROPE**  
**EXCHANGE & CLEARING FEES**  
**CURRENT LIQUIDITY PROVIDER PROGRAMMES**  
2<sup>nd</sup> January 2018

**INTERCONTINENTAL EXCHANGE**

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## ENERGY &amp; SOFT COMMODITY PRODUCTS

## EXCHANGE &amp; CLEARING FEES

## ENERGY PRODUCTS — TRANSACTION FEES (PER SIDE PER LOT)

CONTRACT LEVIES — BRENT, BRENT NX, GASOIL, LOW SULPHUR GASOIL, WTI, HEATING OIL, RBOB GASOLINE, ME SOUR CRUDE, ASCI AND ASCI DIFFERENTIAL	FEE (\$)		
	EXCHANGE	CLEARING	TOTAL
Cash Settlement	—	0.09	0.09
Deliveries (Gasoil and Low Sulphur Gasoil only) <sup>1</sup>	—	8.00	8.00
EFP/EFS/Block	0.12	1.20	1.32
Futures Contracts	0.25	0.57	0.82
Futures Style Option Contracts (Brent, WTI, Gasoil and Low Sulphur Gasoil)	0.25	0.57	0.82
Futures Style Option Exercise (Brent, WTI, Gasoil and Low Sulphur Gasoil)	—	0.30	0.30

<sup>1</sup> (\$2.50 if ADP 2 days prior to first day of each delivery range)

CONTRACT LEVIES — UK NATURAL GAS (GBP)	FEE (£) — MONTHLY			FEE (£) — DAILY		
	EXCHANGE	CLEARING	TOTAL	EXCHANGE	CLEARING	TOTAL
Cash Settlement	—	—	—	—	0.0050	0.0050
Deliveries (Per Day)	—	0.05	0.05	—	0.0500	0.0500
EFP/EFS/Block	0.05	0.58	0.63	0.0025	0.0225	0.0250
Futures Contracts	0.12	0.26	0.38	0.0080	0.0170	0.0250
Futures Style Option Contracts	0.45	1.05	1.50	—	—	—
Option Contracts (EFP/EFS/Blocks)	0.15	1.35	1.50	—	—	—
Option Exercise	—	1.00	1.00	—	—	—

CONTRACT LEVIES — UK NATURAL GAS (EUR)	FEE (€) PER MWH		
	EXCHANGE	CLEARING	TOTAL
Deliveries	—	0.05	0.05
EFP/EFS/Block	0.00038	0.00337	0.00375
Futures Contracts	0.00113	0.00262	0.00375

CONTRACT LEVIES — COAL	FEE (\$) PER MONTHLY LOT		
	EXCHANGE	CLEARING	TOTAL
Cash Settlement	—	2.00	2.00
EFP/EFS/Block	0.90	8.10	9.00
Futures/Options Contracts	2.75	6.25	9.00
Option Exercise	—	2.00	2.00

CONTRACT LEVIES — UK ELECTRICITY	FEE (£) PER MWH		
	EXCHANGE	CLEARING	TOTAL
Deliveries (includes Elexon fee)	—	0.00450	0.00450
EFP/EFS/Block	0.00023	0.00202	0.00225
Futures Contracts	0.00068	0.00157	0.00225

CONTRACT LEVIES — EMISSIONS	FEE (€)		
	EXCHANGE	CLEARING	TOTAL
EFP/EFS/Block	0.40	3.60	4.00
Futures/Daily Futures/Option Contracts	1.05 (Members Proprietary Business)	2.45 (Members Proprietary Business)	3.50
	1.20 (All Other Business)	2.80 (All Other Business)	4.00
Option Exercise	—	1.50	1.50
U.K. Auction Contracts	0.06	0.14	0.20

## SOFT COMMODITY PRODUCTS — TRANSACTION FEES (PER SIDE PER LOT)

CONTRACT LEVIES — LONDON COCOA AND EURO COCOA <sup>2</sup> , ROBUSTA COFFEE, WHITE SUGAR AND CONTAINERISED WHITE SUGAR, UK FEED WHEAT	FEE (£)		
	EXCHANGE	CLEARING	TOTAL
EFP/EFS/E00	0.09	0.78	0.87
Futures and Block <sup>3</sup> Contracts	0.16	0.37	0.53
Options Contracts	0.16	0.37	0.53
Option Exercise	0.00	0.075	0.075

<sup>2</sup> London Cocoa and Euro Cocoa — futures exchange and clearing fee is £0.54, with £0.01 per lot per side being paid to support the Cocoa Research Association.

<sup>3</sup> Block contract is only applicable to White Sugar Arbitrage and London Cocoa/Euro Cocoa Arbitrage. No fees will be charged on the Euro Cocoa Futures leg of the Cocoa Arbitrage block trade.

GRADING AND DELIVERY FEES FOR SOFT COMMODITY FUTURES	FEE (£)		
	GRADING	APPEAL	DELIVERY
London Cocoa and Euro Cocoa Standard Delivery Unit	72	63	3.50
London Cocoa and Euro Cocoa Large Delivery Unit	550	440	25.00
London Cocoa and Euro Cocoa Bulk Delivery - Grading & FFA	5350	3450	200.00
London Cocoa and Euro Cocoa Bulk Delivery - Grading Appeal Only	N/A	3250	N/A
London Cocoa and Euro Cocoa Bulk Delivery - FFA Appeal Only	N/A	200	N/A
Robusta Coffee Single Lot	74.5	85	3.50
Robusta Coffee Grouped Lots	90	102.5	5.00
UK Feed Wheat	N/A	N/A	5.00
White Sugar	N/A	N/A	5.00
Containerised White Sugar	N/A	N/A	5.00

Grading and Grading Appeal fees are for the account of the Seller only

GUARDIAN DEPOSITORY LODGEMENT FEES FOR LONDON COCOA, EURO COCOA AND ROBUSTA COFFEE	FEE (£)
1-10 warrants	170
11-50 warrants	315
51-100 warrants	400
101-150 warrants	475
151-200 warrants	575

# EXCHANGE & CLEARING FEES



## INTEREST RATE PRODUCTS

### TRANSACTION FEES (PER SIDE PER LOT)

CONTRACT LEVIES — EURODOLLAR	FEE (\$)		
	EXCHANGE	CLEARING	TOTAL
Cash Settlement	—	0.06	0.06
EFP/EFS/Block	0.025	0.225	0.250
Futures Contracts	0.075	0.175	0.250

CONTRACT LEVIES — DTCC GCF REPO INDEX	FEE (\$)		
	EXCHANGE	CLEARING	TOTAL
Cash Settlement	—	0.06	0.06
EFP/EFS/Block	0.086	0.774	0.860
Futures Contracts	0.183	0.427	0.610

CONTRACT LEVIES — EONIA, EONIA SWAP INDEX, EURIBOR®, SHORT STERLING, EUROSUISS <sup>1</sup> Excludes Eonia and Eonia Swap Index	FEE (£)		
	EXCHANGE	CLEARING	TOTAL
Basis/Block	0.08	0.20	0.28
Block with Delayed Publication <sup>1</sup>	0.04	0.34	0.38
Cash Settlement	0.00	0.25	0.25
Futures Contracts	0.08	0.20	0.28
Options Contracts <sup>1</sup>	0.07	0.18	0.25
Option Exercise	0.00	0.25	0.25

CONTRACT LEVIES — SHORT, MEDIUM, LONG AND ULTRA-LONG GILTS	FEE (£)		
	EXCHANGE	CLEARING	TOTAL
Basis/Block	0.08	0.20	0.28
Block with Delayed Publication	0.04	0.34	0.38
Deliveries	0.00	2.50	2.50
Futures Contracts	0.08	0.20	0.28
Options Contracts (Long Gilt only)	0.08	0.20	0.28
Option Exercise (Long Gilt only)	0.00	0.20	0.20

CONTRACT LEVIES — EURO, STERLING, SWISS FRANC, U.S. DOLLAR SWAPNOTE® <sup>2</sup> Only Euro Swapnote®	FEE (£)		
	EXCHANGE	CLEARING	TOTAL
Basis/Block	0.05	0.13	0.18
Block with Delayed Publication	0.03	0.25	0.28
Cash Settlement	0.00	0.15	0.15
Futures Contracts	0.05	0.13	0.18
Options Contracts <sup>2</sup>	0.05	0.13	0.18
Option Exercise <sup>2</sup>	0.00	0.15	0.15

CONTRACT LEVIES — EUROPEAN GOVERNMENT BONDS (GERMAN, ITALIAN, SPANISH, SWISS)	FEE (£)		
	EXCHANGE	CLEARING	TOTAL
Basis/Block	0.05	0.13	0.18
Block with Delayed Publication	0.03	0.25	0.28
Deliveries	0.00	2.50	2.50
Futures Contracts	0.05	0.13	0.18

CONTRACT LEVIES — NON-CUSTOM EURIBOR & GBP LIBOR ERS INTEREST RATE FUTURES 1-10YR TENOR	FEE (£)		
	EXCHANGE	CLEARING	TOTAL
Basis/Block	0.10	0.40	0.50
Block with Delayed Publication	0.14	0.56	0.70
Cash Settlement	0.10	0.40	0.50
Futures Contracts	0.10	0.40	0.50

CONTRACT LEVIES — CUSTOM EURIBOR AND GBP LIBOR ERS INTEREST RATE FUTURES & NON-CUSTOM 30YR TENOR	FEE (£)		
	EXCHANGE	CLEARING	TOTAL
Basis/Block	0.20	0.80	1.00
Block with Delayed Publication	0.28	1.12	1.40
Cash Settlement	0.20	0.80	1.00
Futures Contracts	0.20	0.80	1.00

CONTRACT LEVIES — SONIA INDEXED FUTURES	FEE (£)		
	EXCHANGE	CLEARING	TOTAL
Basis/Block	0.11	0.45	0.56
Block with Delayed Publication	0.22	0.90	1.12
Cash Settlement	0.00	0.56	0.56
Futures Contracts	0.11	0.45	0.56

## EQUITY PRODUCTS:

# Exchange & Clearing Fees

## EQUITY PRODUCTS

Transaction Fees (Per side per lot, up to a fee cap where stated)

	FEE CAP <sup>2</sup>																		
	PUBLISHED									NON PUBLISHED / DELAYED PUBLISHED <sup>5</sup>									
	Exchange	Clearing	Total	Exchange Non Published/ Delayed Published <sup>5</sup>	Clearing Non Published/ Delayed Published <sup>5</sup>	Total Non Published/ Delayed Published <sup>5</sup>	Exercise / Assignment	Cash Settlement	Delivery <sup>1</sup>	Exchange	Clearing	Total	Exercise / Assignment	Cash Settlement	Exchange	Clearing	Total	Exercise / Assignment	Cash Settlement
FTSE 100 Index futures and options <sup>3</sup>	€0.08	€0.20	<b>€0.28</b>	N/A	N/A	<b>N/A</b>	€0.20	€0.20	N/A	N/A	N/A	<b>N/A</b>	€1,500	N/A	N/A	N/A	<b>N/A</b>	N/A	N/A
FTSE 100 Index futures and options — block only	€0.03	€0.25	<b>€0.28</b>	€0.04	€0.29	<b>€0.33</b>	€0.20	€0.20	N/A	€150	€1,350	<b>€1,500</b>	€1,500	N/A	€180	€1,620	<b>€1,800</b>	€1,500	N/A
FTSE 100 Dividend Index futures <sup>4</sup>	€0.08	€0.20	<b>€0.28</b>	N/A	N/A	<b>N/A</b>	N/A	€0.20	N/A	N/A	N/A	<b>N/A</b>	N/A	N/A	N/A	N/A	<b>N/A</b>	N/A	N/A
FTSE 100 Dividend Index futures — block only <sup>4</sup>	€0.03	€0.25	<b>€0.28</b>	€0.04	€0.34	<b>€0.38</b>	N/A	€0.20	N/A	N/A	N/A	<b>N/A</b>	N/A	N/A	N/A	N/A	<b>N/A</b>	N/A	N/A
FTSE 250 Index futures	€0.04	€0.09	<b>€0.13</b>	N/A	N/A	<b>N/A</b>	N/A	€0.20	N/A	N/A	N/A	<b>N/A</b>	N/A	N/A	N/A	N/A	<b>N/A</b>	N/A	N/A
FTSE 250 Index futures and options — block only	€0.01	€0.12	<b>€0.13</b>	€0.02	€0.13	<b>€0.15</b>	€0.20	€0.20	N/A	N/A	N/A	<b>N/A</b>	N/A	N/A	N/A	N/A	<b>N/A</b>	N/A	N/A
MSCI Europe Index futures	€ 0.09	€ 0.21	<b>€ 0.30</b>	N/A	N/A	<b>N/A</b>	N/A	€ 0.30	N/A	N/A	N/A	<b>N/A</b>	N/A	N/A	N/A	N/A	<b>N/A</b>	N/A	N/A
MSCI Europe Index futures and options — block only	€ 0.03	€ 0.27	<b>€ 0.30</b>	€ 0.04	€ 0.31	<b>€ 0.35</b>	€ 0.30	€ 0.30	N/A	N/A	N/A	<b>N/A</b>	N/A	N/A	N/A	N/A	<b>N/A</b>	N/A	N/A
MSCI World Index futures	€0.15	€0.35	<b>€0.50</b>	N/A	N/A	<b>N/A</b>	N/A	€0.20	N/A	N/A	N/A	<b>N/A</b>	N/A	N/A	N/A	N/A	<b>N/A</b>	N/A	N/A
MSCI World Index futures — block only	€0.05	€0.45	<b>€0.50</b>	€0.06	€0.54	<b>€0.60</b>	N/A	€0.20	N/A	N/A	N/A	<b>N/A</b>	N/A	N/A	N/A	N/A	<b>N/A</b>	N/A	N/A
Austrian, Belgian, Dutch, Finnish, French, German, Italian, Spanish Stock futures	€ 0.05	€ 0.13	<b>€ 0.18</b>	N/A	N/A	<b>N/A</b>	N/A	€ 0.30	N/A	€37	€328	<b>€365</b>	N/A	€ 365	N/A	N/A	<b>N/A</b>	N/A	N/A
Austrian, Belgian, Czech, Danish, Dutch, Finnish, French, German, Hungarian, Irish, Italian, Norwegian, Polish, Portuguese, Spanish, Swedish, Swiss Dividend Adjusted Single Stock futures — block only	€ 0.02	€ 0.16	<b>€ 0.18</b>	€ 0.03	€ 0.17	<b>€ 0.20</b>	N/A	€ 0.30	€3.00	N/A	N/A	<b>N/A</b>	N/A	N/A	N/A	N/A	<b>N/A</b>	N/A	N/A
Austrian, Belgian, Czech, Danish, Dutch, Finnish, French, German, Hungarian, Irish, Italian, Norwegian, Polish, Portuguese, Spanish, Swedish, Swiss Stock futures — block only	€ 0.02	€ 0.16	<b>€ 0.18</b>	€ 0.03	€ 0.17	<b>€ 0.20</b>	N/A	€ 0.30	€3.00	€ 37	€ 328	<b>€ 365</b>	N/A	€365	€ 48	€ 427	<b>€ 475</b>	N/A	€ 365
Austrian, Belgian, Danish, Dutch, Finnish, French, German, Irish, Italian, Norwegian, Portuguese, Spanish, Swedish, Swiss Single Stock options — block only	€ 0.02	€ 0.16	<b>€ 0.18</b>	€ 0.03	€ 0.17	<b>€ 0.20</b>	€ 0.20	N/A	€3.00	€ 20	€ 180	<b>€ 200</b>	€ 200	N/A	€ 24	€ 216	<b>€ 240</b>	€ 200	N/A
Australian and Turkish Dividend Adjusted Single Stock futures - block only	€0.04	€0.36	<b>€0.40</b>	€0.05	€0.43	<b>€0.48</b>	N/A	€0.20	€3.00	N/A	N/A	<b>N/A</b>	N/A	N/A	N/A	N/A	<b>N/A</b>	N/A	N/A

EQUITY PRODUCTS (continued)

Transaction Fees (Per side per lot, up to a fee cap where stated)

2 June 2016

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	FEE CAP <sup>2</sup>																		
	PUBLISHED									NON PUBLISHED / DELAYED PUBLISHED <sup>5</sup>									
	Exchange	Clearing	Total	Exchange Non Published/ Delayed Published <sup>5</sup>	Clearing Non Published/ Delayed Published <sup>5</sup>	Total Non Published/ Delayed Published <sup>5</sup>	Exercise / Assignment	Cash Settlement	Delivery <sup>1</sup>	Exchange	Clearing	Total	Exercise / Assignment	Cash Settlement	Exchange	Clearing	Total	Exercise / Assignment	Cash Settlement
Turkish Stock futures — block only	€0.04	€0.36	€0.40	€0.05	€0.43	€0.48	N/A	€0.20	€3.00	€75	€675	€750	N/A	€750	€90	€810	€900	N/A	€750
South African Dividend Adjusted Single Stock futures — block only	€0.04	€0.36	€0.40	€0.05	€0.43	€0.48	N/A	€0.20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
South African Stock futures — block only	€0.04	€0.36	€0.40	€0.05	€0.43	€0.48	N/A	€0.20	N/A	€75	€675	€750	N/A	€750	€90	€810	€900	N/A	€750
Canadian, Kazakhstan GDR, Russian GDRs, South Korean GDRs, Taiwan GDR, UK and US Dividend Adjusted Single Stock Futures - block only	€0.01	€0.09	€0.10	€0.02	€0.10	€0.12	N/A	€0.20	€3.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Canadian, Indian GDR, Russian GDR, South Korean ADR, Swiss ADR, UK and US Stock Futures - block only	€0.01	€0.09	€0.10	€0.02	€0.10	€0.12	N/A	€0.20	€3.00	€30	€270	€300	N/A	€300	€36	€324	€360	N/A	€300
Russian GDRs, US Single Stock options — block only	€0.03	€0.25	€0.28	€0.04	€0.29	€0.33	€0.20	N/A	€3.00	€30	€120	€150	€150	N/A	€18	€162	€180	€150	N/A
UK Single Stock Options — block only	€0.04	€0.36	€0.40	€0.05	€0.40	€0.45	€0.20	N/A	€3.00	€22	€198	€220	€150	N/A	€27	€243	€270	€150	N/A
UK Stock Options <sup>3</sup>	€0.12	€0.28	€0.40	N/A	N/A	N/A	€0.20	N/A	€3.00	N/A	N/A	N/A	€150	N/A	N/A	N/A	N/A	N/A	N/A
AEX Index futures — block only	€ 0.07	€ 0.68	€ 0.75	€ 0.09	€ 0.81	€ 0.90	N/A	€ 0.30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AEX Index options — block only	€ 0.07	€ 0.68	€ 0.75	€ 0.09	€ 0.81	€ 0.90	€ 0.30	N/A	N/A	€ 200	€ 1,800	€ 2,000	€ 2,000	N/A	€ 240	€ 2,160	€ 2,400	€ 2,000	N/A
BEL20, CAC 40, PSI 20 Index futures — block only	€ 0.03	€ 0.32	€ 0.35	€ 0.04	€ 0.36	€ 0.40	N/A	€ 0.30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BEL20, CAC 40, PSI 20 Index options — block only	€ 0.03	€ 0.32	€ 0.35	€ 0.04	€ 0.36	€ 0.40	€ 0.30	N/A	N/A	€ 200	€ 1,800	€ 2,000	€ 2,000	N/A	€ 240	€ 2,160	€ 2,400	€ 2,000	N/A
FTSE 100 Equally Weighted Net Total Return (NTR) Index futures — block only	€0.04	€0.36	€0.40	€0.05	€0.45	€0.50	N/A	€0.20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FTSE 100 Total Return Index futures - block only	€0.04	€0.34	€0.38	€0.05	€0.38	€0.43	N/A	€0.20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FTSEurofirst 80, FTSEurofirst 100 Index futures and options — block only	€0.05	€0.45	€0.50	€0.06	€0.54	€0.60	€0.20	€0.20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MSCI Regional & Country Specific, MSCI Europe Sectors, MSCI World Sectors, MSCI Factor and MSCI Currency Hedged Index futures — block only	€0.05	€0.45	€0.50	€0.06	€0.54	€0.60	N/A	€0.20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Russell Europe SMID 300 Net Return Index futures - block only	€ 0.04	€ 0.36	€ 0.40	€ 0.05	€ 0.45	€ 0.50	N/A	€ 0.30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Russell UK MID 150 Net Return Index futures - block only	€0.04	€0.34	€0.38	€0.05	€0.38	€0.43	N/A	€0.20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NOTES

<sup>1</sup> Delivery fees are charged per bargain

<sup>2</sup> For trades with multiple legs, each leg is charged separately, up to a fee cap (i.e. For these purposes, each leg is treated as a separate transaction)

<sup>3</sup> Recognised Strategy Trades in UK Stock Option and FTSE 100 Index Option contracts will be charged 1.5 times the maximum per lot leg rate. In circumstances where the Strategy fee discount results in a higher fee than the total per leg fee, the lower of the two fees will be charged.

<sup>4</sup> Both FTSE 100 Declared Dividend Index Futures and FTSE 100 Dividend Index Futures RDSA Withholding

<sup>5</sup> Delayed publication only applies to those contracts listed both on the Central Limit Orderbook and ICE Block

Trading and Clearing fees do not apply to the stock leg of a stock contingent trade, only Delivery fees per bargain apply



# ICE Futures U.S. - Energy Division Exchange and Clearing Fees

(Per side per lot)

## North American Liquefied Natural Gas - Cleared

Futures Description	ICE	ICE	Lot	Screen	ICE Clear EU Screen	ICE Clear EU Block, EFS	Cash Settle (per lot)
	Logical Code	Physical Code	Size	Futures Fee (per lot)	Fee (per lot)	Fee (per lot)	
Gulf Coast LNG (Platts) Future	GCL	GCL	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02

### Financial Liquefied Natural Gas Payment (Cleared Transactions)

The clearinghouse will collect the commission from Participant's FCM account on behalf of ICE no later than the first business day after the Transaction was Executed. ICE will rebate to Participant amounts collected in excess, if any, of the rates above within 30 days of the end of the month in which the Transaction was Executed.

## North American Financial Natural Gas - Cleared

Futures Description	ICE	ICE	Lot	Screen	ICE Clear EU Screen	ICE Clear EU Block, EFS	Cash Settle (per lot)
	Logical Code	Physical Code	Size	Futures Fee (per lot)	Fee (per lot)	Fee (per lot)	
US EIA Financial Weekly Index	EII	EII	1000 USD	\$2.00	\$8.00	\$8.00	\$2.00
US EIA End of Draw Index Future	EIR	EIR	10 USD	\$0.02	\$0.08	\$0.08	\$0.02
US EIA End of Storage Index Future	EIO	EIO	10 USD	\$0.02	\$0.08	\$0.08	\$0.02
Henry LD1 Fixed Price Future	HNG	H	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Henry LD1 Fixed Price Future 25K	HNG	HHL	25,000 MMBtu	\$1.2825	\$4.94	\$5.20	\$0.19
Henry Penultimate Fixed Price Future	HNG	PHH	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Henry Penultimate Fixed Price Future 25K	HNG	HHP	25,000 MMBtu	\$1.2825	\$4.94	\$5.20	\$0.19
Henry LD4 Fixed Price Future	HNG	QHH	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Henry Calendar Year One Time Fixed Price Future	HNG	HHC	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Henry LD1 Same Day Fixed Price Future	SDH	SDH	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
NG Index NGX (7a/5a) Future	NG7	NG7	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
AB NIT Swing 5a Future (US/MM)	NG5	NG5	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
AB NIT NGX Same Day 5a Fixed Price Future	NGA	NGA	2500 GJ	\$0.500	\$2.02	\$2.02	\$0.02
Panhandle Fixed Price Future	OPP	OPP	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
EP San Juan Fixed Price Future	OPU	OPU	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Socal Fixed Price Future	OPS	OPS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
AB NIT Basis Future	AEC	AEC	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Algonquin Citygates Basis Future	ALQ	ALQ	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
ANR SW (Oklahoma) Basis Future	ANO	ANO	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
TETCO M2 (receipt) Basis Future	BM2	BM2	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
CG Mainline Basis Future	CGB	CGB	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
ANR SE (Louisiana) Basis Future	CGM	CGM	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
CG Onshore Basis Future	CON	CON	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
CIG Rockies Basis Future	CRI	CRI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Centerpoint Basis Future	CTP	CTP	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
NNG Demarc Basis Future	DEM	DEM	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Chicago Basis Future	DGD	DGD	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Dominion South Basis Future	DOM	DOM	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Union Dawn Basis Future	DWN	DWN	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Florida Gas Zone 3 Basis Future	FTZ	FTZ	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Henry Basis Future	HEN	HEN	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
HSC Basis Future	HXS	HXS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Iroquois (Into) Basis (Platts) Future	IRB	IRB	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Iroquois-Z2 Basis (Platts) Future	IZB	IZB	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Katy Basis Future	KTB	KTB	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
NGPL Midcont Basis Future	MCO	MCO	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Malin Basis Future	MLN	MLN	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Michcon Basis Future	NMC	NMC	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
NWP Sumas Basis Future	NSU	NSU	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
NGPL STX Basis Future	NSX	NSX	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
NGPL TXOK Basis Future	NTO	NTO	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
NNG Ventura Basis Future	NVE	NVE	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
NWP Rockies Basis Future	NWR	NWR	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
ONEOK Gas Transportation Basis Future	ONE	ONE	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
REX Zone 3 Basis Future	REX	REX	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Southern Star TX OK KS Basis Future	OUB	OUB	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Panhandle Basis Future	PAN	PAN	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
EP Permian Basis Future	PER	PER	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
PG&E Citygate Basis Future	PGE	PGE	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Socal Citygate Basis Future	SCB	SCB	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Socal Border Basis Future	SCL	SCL	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
EP San Juan Basis Future	SNJ	SNJ	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Sonat Basis Future	SÓN	SON	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Transco Leidy Basis Future	YQB	YQB	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Transco Station 65 (Zone 3) Basis Future	STA	STA	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
TETCO STX Basis Future	SXT	SXT	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
TCO Basis Future	TCO	TCO	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
TETCO ELA Basis Future	TEB	TEB	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
TETCO M1 30 Basis Future	TMB	TMB	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Tennessee 500L Basis Future	TFL	TFL	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Tennessee Zone 4 300L Basis Future	DMR	DMR	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
TGT Zone 1 Basis Future	TGB	TGB	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
TGP-Z6 200L Basis Future	TGL	TGL	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
TETCO M3 Basis Future	TMT	TMT	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Transco Zone 6 (non NY) Basis Future	TPB	TPB	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Trunkline LA Basis Future	TRL	TRL	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Transco Station 85 (Zone 4) Basis Future	TRZ	TRZ	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Transco Zone 5 Basis Future	DKR	DKR	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Tennessee 800L Basis Future	TSB	TSB	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Transco Station 30 (Zone 1) Basis Future	TTB	TTB	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
TETCO WLA Basis Future	TWB	TWB	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02



## North American Financial Natural Gas - Cleared (Continued)

Futures Description	ICE	ICE	Lot	Screen	ICE Clear EU Screen	ICE Clear EU Block, EFS	Cash Settle (per lot)
	Logical Code	Physical Code	Size	Futures Fee (per lot)	Fee (per lot)	Fee (per lot)	
Transco Zone 6 (NY) Basis Future	TZS	TZS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Tennessee Zone 0 Basis Future	TZZ	TZZ	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Waha Basis Future	WAH	WAH	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
AB NIT Index Future	AIS	AIS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Algonquin Citygates Index Future	ALI	ALI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
ANR SW (Oklahoma) Index Future	AOI	AOI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
ANR SE (Louisiana) Index Future	API	API	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Chicago Index Future	CIS	CIS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
CIG Rockies Index Future	CRS	CRS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Centerpoint Index Future	CTI	CTI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
CG-Mainline Index Future	CGI	CGI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
NNG Demarc Index Future	DEI	DEI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Dominion South Index Future	DIS	DIS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
PG&E Citygate Index Future	EIS	EIS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Florida Gas Zone 3 Index Future	FTI	FTI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Henry Index Future	HIS	HIS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Katy Index Future	KTI	KTI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
NGPL Midcont Index Future	MCI	MCI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Malin Index Future	MIS	MIS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
TETCO M3 Index Future	MTI	MTI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
NWP Sumas Index Future	NIS	NIS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Michcon Index Future	NMI	NMI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
NNG Ventura Index Future	NNI	NNI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Transco Zone 6 (NY) Index Future	NSI	NSI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
NGPL TXOK Index Future	NTI	NTI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
NGPL STX Index Future	NXI	NXI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
ONEOK Gas Transportation Index Future	ONI	ONI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
REX Zone 3 Index Future	REI	REI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Southern Star TX OK KS Index Future	OUI	OUI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
EP Permian Index Future	PEI	PEI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Panhandle Index Future	PIS	PIS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
NWP Rockies Index Future	RSI	RSI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Socal Citygate Index Future	SCI	SCI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
HSC Index Future	SHS	SHS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Iroquois (Into) Index (Platts) Future	IRI	IRI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Iroquois-Z2 Index (Platts) Future	IZI	IZI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Transco Leidy Index Future	YQI	YQI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Transco Station 65 (Zone 3) Index Future	SIA	SIA	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Socal Border Index Future	SIS	SIS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
EP San Juan Index Future	SNI	SNI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Sonat Index Future	SOI	SOI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
TETCO STX Index Future	SXI	SXI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
TETCO ELA Index Future	TEI	TEI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
TETCO M1 30 Index Future	TMA	TMA	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
TETCO M2 Index Future (Receipts)	MB4	MB4	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
TETCO WLA Index Future	TWC	TWC	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Tennessee 500L Index Future	TFI	TFI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Tennessee Zone 4 300L Index Future	DMQ	DMQ	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
TGT Zone 1 Index Future	TGI	TGI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
TGP 800L Index Future	TSI	TSI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
TCO Index Future	TIS	TIS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Transco Station 45 (Zone 2) Index Future	TNI	TNI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Transco Zone 6 (non NY) Index Future	TPI	TPI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Transco Station 85 (Zone 4) Index Future	TRI	TRI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Transco Zone 5 Index Future	DKT	DKT	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Tennessee Zone 0 Index Future	TZI	TZI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Waha Index Future	WAI	WAI	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
AB NIT Swing Future	ASS	ASS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Algonquin Citygates Swing Future	ALS	ALS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
ANR SW (Oklahoma) Swing Future	AOS	AOS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
ANR SE (Louisiana) Swing Future	APS	APS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
TCO Swing Future	CGS	CGS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
CIG Rockies Swing Future	CRS	CRS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Chicago Swing Future	CSS	CSS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Centerpoint Swing Future	CTS	CTS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
CG-Mainline Swing Future	CGR	CGR	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
NNG Demarc Swing Future	DES	DES	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Dominion South Swing Future	DSS	DSS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Florida Gas Zone 3 Swing Future	FTS	FTS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Henry Swing Future	HHD	HHD	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
HSC Swing Future	UCS	UCS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Iroquois (Into) Swing (Platts) Future	IRS	IRS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Iroquois-Z2 Swing (Platts) Future	IZS	IZS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Katy Swing Future	KTS	KTS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Lebanon Swing Future	LBN	LBN	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Malin Swing Future	MSS	MSS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
NGPL Midcont Swing Future	MTS	MTS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Michcon Swing Future	NMS	NMS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
NNG Ventura Swing Future	NNS	NNS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
NWP Sumas Swing Future	NSS	NSS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
NGPL TXOK Swing Future	NTS	NTS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
NGPL STX Swing Future	NXS	NXS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
ONEOK Gas Swing Future	ONS	ONS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
REX Zone 3 Swing Future	RES	RES	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Southern Star TX OK KS Swing Future	OUS	OUS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
EP Permian Swing Future	PES	PES	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
PG&E Citygate Swing Future	PIG	PIG	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02

## North American Financial Natural Gas - Cleared (Continued)

Futures Description	ICE	ICE	Lot	Screen	ICE Clear EU Screen	ICE Clear EU Block, EFS	Cash Settle (per lot)
	Logical Code	Physical Code	Size	Futures Fee (per lot)	Fee (per lot)	Fee (per lot)	
Panhandle Swing Future	PSS	PSS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
NWP Rockies Swing Future	RSS	RSS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
EP San Juan Swing Future	SNS	SNS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Socal Border Swing Future	SSS	SSS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Socal Citygate Swing Future	SCS	SCS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Sonat Swing Future	SOS	SOS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Tennessee Zone 0 Swing Future	TZR	TZR	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Tennessee Zone 4 300L Swing Future	DMS	DMS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
TETCO M2 Swing Future (Receipts)	BM3	BM3	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
TETCO M3 Swing Future	TSS	TSS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
TETCO STX Swing Future	SXC	SXC	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
TGT Zone 1 Swing Future	TGS	TGS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Transco Leidy Swing Future	YQS	YQS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Transco Station 65 (Zone 3) Swing Future	SSA	SSA	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Transco Station 85 (Zone 4) Swing Future	TRW	TRW	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Transco Zone 5 Swing Future	DKS	DKS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Transco Zone 6 (NY) Swing Future	ZSS	ZSS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Transco Zone 6 (non NY) Swing Future	TPS	TPS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02
Waha Swing Future	WAS	WAS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.02

## North American Financial Natural Gas Options - Cleared

Options Description	ICE	ICE	Lot	Screen	ICE Clear EU Screen	ICE Clear EU Block, EOO	Exercise (per lot)
	Logical Code	Physical Code	Size	Futures Fee (per lot)	Fee (per lot)	Fee (per lot)	
Option on Henry Penultimate Fixed Price Future	HNG	PHE	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.30
Option on Henry Penultimate Fixed Price Future	HNG	HHP	25,000 MMBtu	\$1.2825	\$4.94	\$5.20	\$2.85
Option on Henry LD4 Fixed Price Future	HNG	QHH	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.30
Calendar Year One Time Option on Henry Calendar Year One Time Fixed Price Future	HNG	HHC	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.30
Option on Henry LD1 Same Day Fixed Price Future	SDH	SDH	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.30
Calendar Spread Option on Henry Penultimate 1-Month Calendar Spread Future	HHM	HHM	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.30
Calendar Spread Option on Henry Penultimate 3-Month Calendar Spread Future	HMT	HMT	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.30
Calendar Spread Option on Henry Penultimate 4-Month Calendar Spread Future	HHR	HHR	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.30
Calendar Spread Option on Henry Penultimate 5-Month Calendar Spread Future	HHV	HHV	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.30
Calendar Spread Option on Henry Penultimate 6-Month Calendar Spread Future	HMX	HMX	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.30
Option on Henry Swing Future	HHD	HHD	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.30
Option on Panhandle Fixed Price Future	OPP	OPP	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.30
Option on EP San Juan Fixed Price Future	OPU	OPU	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.30
Option on Socal Fixed Price Future	OPS	OPS	2500 MMBtu	\$0.135	\$0.52	\$0.52	\$0.30

### Payment (Cleared Transactions)

The clearinghouse will collect the commission from Participant's FCM account on behalf of ICE no later than the first business day after the Transaction was Executed. ICE will rebate to Participant amounts collected in excess, if any, of the rates above within 30 days of the end of the month in which the Transaction was Executed.  
Minimum commission of \$600 per month per user (excludes NGX Products). \*excludes GLC - Gulf Coast LNG (Platts) Future

## US Financial Power - East - Monthly - Cleared

Futures Description	ICE	ICE	Lot	Screen	ICE Clear EU Screen	ICE Clear EU Block, EFS	Cash Settle (per lot)
	Logical Code	Physical Code	Size	Futures Fee (per lot)	Fee (per lot)	Fee (per lot)	
PJM Daily Load Future	PDF	PDF	1 USD	\$1,000	\$3.50	\$3.50	\$1.00
ERCOT Daily Load Future	EDF	EDF	1 USD	\$1,000	\$3.50	\$3.50	\$1.00
NYISO In-City Capacity Calendar-Month Future	NYC	NYC	1000 KW	\$1.825	\$5.475	\$5.475	\$1.825
NYISO Lower Hudson Valley Capacity Fixed Price Future	NYU	NYU	1000 KW	\$1.825	\$5.475	\$5.475	\$1.825
NYISO Rest of the State Capacity Calendar-Month Future	NYR	NYR	1000 KW	\$1.825	\$5.475	\$5.475	\$1.825
PJM Western Hub Real-Time Peak Fixed Price Future	PJM	PJM	800 MWh	\$2,000	\$4,000	\$4,000	\$2,000
PJM Western Hub Real-Time Peak Calendar Year One Time Fixed Price Future	PJM	PMX	800 MWh	\$2,000	\$4,000	\$4,000	\$2,000

## US Financial Power - East - Monthly - Variable Sized - Cleared

Futures Description	ICE	ICE	Lot	Screen	ICE Clear EU Screen	ICE Clear EU Block, EFS	Cash Settle (per lot)
	Logical Code	Physical Code	Size (MWh)*	Futures Fee (per lot)	Fee (per lot)	Fee (per lot)	
ERCOT Capacity Responsive Reserve Future	ECR	ECR	730	\$1.825	\$5.475	\$5.475	\$1.825
ERCOT Non-Spinning Reserve Future	ENS	ENS	730	\$1.825	\$5.475	\$5.475	\$1.825
ERCOT Regulation UP Future	ERK	ERK	730	\$1.825	\$5.475	\$5.475	\$1.825
ERCOT Regulation DOWN Future	ERL	ERL	730	\$1.825	\$5.475	\$5.475	\$1.825
PJM Western Hub Real-Time Peak 50MW Fixed Price Future	PJM	PMJ	17000	\$42,500	\$85,000	\$85,000	\$42,500
PJM Western Hub Real-Time Peak Calendar Year One Time Fixed Price Future	PJM	PMM	340	\$0.850	\$1,700	\$1,700	\$0.850
PJM Western Hub Day-Ahead Peak Fixed Price Future	PJC	PJC	340	\$0.850	\$1,700	\$1,700	\$0.850
PJM Western Hub Real-Time Peak Mini Fixed Price Future	PJM	PMI	340	\$0.850	\$1,700	\$1,700	\$0.850
PJM AECO Zone Day-Ahead Peak Fixed Price Future	PTB	PTB	340	\$0.850	\$2,550	\$2,550	\$0.850
PJM AEP Dayton Hub Real-Time Peak Fixed Price Future	MSO	MSO	340	\$0.850	\$2,550	\$2,550	\$0.850
PJM AEP Dayton Hub Day-Ahead Peak Fixed Price Future	ADB	ADB	340	\$0.850	\$2,550	\$2,550	\$0.850
PJM AEP Zone Day-Ahead Peak Fixed Price Future	PAS	PAS	340	\$0.850	\$2,550	\$2,550	\$0.850
PJM APS Zone Day-Ahead Peak Fixed Price Future	PUB	PUB	340	\$0.850	\$2,550	\$2,550	\$0.850
PJM ATSI Zone Day-Ahead Peak Fixed Price Future	PAV	PAV	340	\$0.850	\$2,550	\$2,550	\$0.850
PJM BGE Zone Day-Ahead Peak Fixed Price Future	BGY	BGY	340	\$0.850	\$2,550	\$2,550	\$0.850
PJM ComEd Zone Day-Ahead Peak Fixed Price Future	CEP	CEP	340	\$0.850	\$2,550	\$2,550	\$0.850
PJM DAY Zone Day-Ahead Peak Fixed Price Future	DCP	DCP	340	\$0.850	\$2,550	\$2,550	\$0.850
PJM DEOK Zone Day-Ahead Peak Fixed Price Future	DEP	DEP	340	\$0.850	\$2,550	\$2,550	\$0.850

\*Average number of MWh per month

## US Financial Power - East - Monthly - Variable Sized - Cleared (Continued)

Futures Description	ICE	ICE	Lot	Screen	ICE Clear EU Screen	ICE Clear EU Block, EFS	Cash Settle (per lot)
	Logical Code	Physical Code	Size (MWh)*	Futures Fee (per lot)	Fee (per lot)	Fee (per lot)	
PJM DOM Day-Ahead Peak Fixed Price Future	DOP	DOP	340	\$0.850	\$2.550	\$2.550	\$0.850
PJM DPL Zone Day-Ahead Peak Fixed Price Future	PXB	PXB	340	\$0.850	\$2.550	\$2.550	\$0.850
PJM Duquesne Zone Day-Ahead Peak Fixed Price Future	PQB	PQB	340	\$0.850	\$2.550	\$2.550	\$0.850
PJM Eastern Hub Day-Ahead Peak Fixed Price Future	PEB	PEB	340	\$0.850	\$2.550	\$2.550	\$0.850
PJM FE Ohio Day-Ahead Peak Fixed Price Future	PFN	PFN	340	\$0.850	\$2.550	\$2.550	\$0.850
PJM JCPL Zone Day-Ahead Peak Fixed Price Future	JCB	JCB	340	\$0.850	\$2.550	\$2.550	\$0.850
PJM METED Zone Day-Ahead Peak Fixed Price Future	PMB	PMB	340	\$0.850	\$2.550	\$2.550	\$0.850
PJM NI Hub Real-Time Peak Fixed Price Future	PNL	PNL	340	\$0.850	\$2.550	\$2.550	\$0.850
PJM NI Hub Day-Ahead Peak Fixed Price Future	NIB	NIB	340	\$0.850	\$2.550	\$2.550	\$0.850
PJM PECO Zone Day-Ahead Peak Fixed Price Future	PCP	PCP	340	\$0.850	\$2.550	\$2.550	\$0.850
PJM PENELEC Zone Day-Ahead Peak Fixed Price Future	PZB	PZB	340	\$0.850	\$2.550	\$2.550	\$0.850
PJM Penn Power Day-Ahead Peak Fixed Price Future	PEP	PEP	340	\$0.850	\$2.550	\$2.550	\$0.850
PJM PEPCO MD Day-Ahead Peak Fixed Price Future	PCR	PCR	340	\$0.850	\$2.550	\$2.550	\$0.850
PJM PEPCO Zone Day-Ahead Peak Month Fixed Price Future	PPF	PPF	340	\$0.850	\$2.550	\$2.550	\$0.850
PJM PPL Zone Day-Ahead Peak Fixed Price Future	PPP	PPP	340	\$0.850	\$2.550	\$2.550	\$0.850
PJM PSEG Day-Ahead Peak Fixed Price Future	PSA	PSA	340	\$0.850	\$2.550	\$2.550	\$0.850
PJM Southimp Day-Ahead Peak Fixed Price Future	SIP	SIP	340	\$0.850	\$2.550	\$2.550	\$0.850
MISO Arkansas Hub Day-Ahead Peak Fixed Price Future	ALP	ALP	340	\$0.850	\$2.550	\$2.550	\$0.850
MISO AMLBGS6 Day-Ahead Peak Fixed Price Future	BGA	BGA	340	\$0.850	\$2.550	\$2.550	\$0.850
MISO Indiana Hub Real-Time Peak Fixed Price Future	CIN	CIN	340	\$0.850	\$2.550	\$2.550	\$0.850
MISO Indiana Hub Day-Ahead Peak Fixed Price Future	MCC	MCC	340	\$0.850	\$2.550	\$2.550	\$0.850
MISO Illinois Hub Day-Ahead Peak Fixed Price Future	MLB	MLB	340	\$0.850	\$2.550	\$2.550	\$0.850
MISO Louisiana Hub Day-Ahead Peak Fixed Price Future	LFP	LFP	340	\$0.850	\$2.550	\$2.550	\$0.850
MISO Minnesota Hub Day-Ahead Peak Fixed Price Future	MDP	MDP	340	\$0.850	\$2.550	\$2.550	\$0.850
MISO Michigan Hub Day-Ahead Peak Fixed Price Future	MGP	MGP	340	\$0.850	\$2.550	\$2.550	\$0.850
MISO Texas Hub Day-Ahead Peak Fixed Price Future	TDP	TDP	340	\$0.850	\$2.550	\$2.550	\$0.850
MISO Texas Hub Real-Time Peak Fixed Price Future	TPP	TPP	340	\$0.850	\$2.550	\$2.550	\$0.850
ERCOT Houston 345KV Day-Ahead Peak Fixed Price Future	EKF	EKF	340	\$0.850	\$2.550	\$2.550	\$0.850
ERCOT Houston 345KV Real-Time Peak Fixed Price Future	ERH	ERH	340	\$0.850	\$2.550	\$2.550	\$0.850
ERCOT West 345KV Day-Ahead Peak Fixed Price Future	EKG	EKG	340	\$0.850	\$2.550	\$2.550	\$0.850
ERCOT South 345KV Day-Ahead Peak Fixed Price Future	EKH	EKH	340	\$0.850	\$2.550	\$2.550	\$0.850
ERCOT North 345KV Day-Ahead Peak Fixed Price Future	EVN	EVN	340	\$0.850	\$2.550	\$2.550	\$0.850
ERCOT North 345KV Real-Time Peak Fixed Price Future	ERN	ERN	340	\$0.850	\$2.550	\$2.550	\$0.850
ERCOT South 345KV Real-Time Peak Fixed Price Future	ERS	ERS	340	\$0.850	\$2.550	\$2.550	\$0.850
ERCOT West 345KV Real-Time Peak Fixed Price Future	ERW	ERW	340	\$0.850	\$2.550	\$2.550	\$0.850
ERCOT Houston Load Zone Real-Time Peak Fixed Price Future	EDH	EDH	340	\$0.850	\$2.550	\$2.550	\$0.850
ERCOT Houston Load Zone Day-Ahead Peak Fixed Price Future	HZB	HZB	340	\$0.850	\$2.550	\$2.550	\$0.850
ERCOT North Load Zone Real-Time Peak Fixed Price Future	EDN	EDN	340	\$0.850	\$2.550	\$2.550	\$0.850
ERCOT North Load Zone Day-Ahead Peak Fixed Price Future	NZB	NZB	340	\$0.850	\$2.550	\$2.550	\$0.850
ERCOT South Load Zone Real-Time Peak Fixed Price Future	EDS	EDS	340	\$0.850	\$2.550	\$2.550	\$0.850
ERCOT South Load Zone Day-Ahead Peak Fixed Price Future	SZB	SZB	340	\$0.850	\$2.550	\$2.550	\$0.850
ERCOT West Load Zone Real-Time Peak Fixed Price Future	EDW	EDW	340	\$0.850	\$2.550	\$2.550	\$0.850
ERCOT West Load Zone Day-Ahead Peak Fixed Price Future	WZB	WZB	340	\$0.850	\$2.550	\$2.550	\$0.850
ISO New England Connecticut Day-Ahead Peak Fixed Price Future	ICP	ICP	340	\$0.850	\$2.550	\$2.550	\$0.850
ISO New England NE Massachusetts Day-Ahead Peak Fixed Price Future	INB	INB	340	\$0.850	\$2.550	\$2.550	\$0.850
ISO New England SE Massachusetts Day-Ahead Peak Fixed Price Future	IMB	IMB	340	\$0.850	\$2.550	\$2.550	\$0.850
ISO New England Maine Day-Ahead Peak Fixed Price Future	IEB	IEB	340	\$0.850	\$2.550	\$2.550	\$0.850
ISO New England New Hampshire Day-Ahead Peak Fixed Price Future	IHB	IHB	340	\$0.850	\$2.550	\$2.550	\$0.850
ISO New England West Central Massachusetts Day-Ahead Peak Fixed Price Future	IWB	IWB	340	\$0.850	\$2.550	\$2.550	\$0.850
ISO New England Massachusetts Hub Day-Ahead Peak Fixed Price Future	NEP	NEP	340	\$0.850	\$2.550	\$2.550	\$0.850
ISO New England Massachusetts Hub Day-Ahead Peak Calendar Year One Time Fixed Price Future	NEP	NEX	340	\$0.850	\$2.550	\$2.550	\$0.850
ISO New England Rhode Island Day-Ahead Peak Mini Fixed Price Future	RIY	RIY	340	\$0.850	\$2.550	\$2.550	\$0.850
NYISO Zone A Day-Ahead Peak Fixed Price Future	NAY	NAY	340	\$0.850	\$2.550	\$2.550	\$0.850
NYISO Zone B Day-Ahead Peak Fixed Price Future	ZBB	ZBB	340	\$0.850	\$2.550	\$2.550	\$0.850
NYISO Zone C Day-Ahead Peak Fixed Price Future	ZCB	ZCB	340	\$0.850	\$2.550	\$2.550	\$0.850
NYISO Zone D Day-Ahead Peak Fixed Price Mini Future	NDR	NDR	340	\$0.850	\$2.550	\$2.550	\$0.850
NYISO Zone E Day-Ahead Peak Fixed Price Future	ZEB	ZEB	340	\$0.850	\$2.550	\$2.550	\$0.850
NYISO Zone F Day-Ahead Peak Fixed Price Future	ZFB	ZFB	340	\$0.850	\$2.550	\$2.550	\$0.850
NYISO Zone G Day-Ahead Peak Fixed Price Future	NGY	NGY	340	\$0.850	\$2.550	\$2.550	\$0.850
NYISO Zone I Day-Ahead Peak Fixed Price Future	ZIK	ZIK	340	\$0.850	\$2.550	\$2.550	\$0.850
NYISO Zone J Day-Ahead Peak Fixed Price Future	NJY	NJY	340	\$0.850	\$2.550	\$2.550	\$0.850
NYISO Zone K Day-Ahead Peak Fixed Price Future	ZKB	ZKB	340	\$0.850	\$2.550	\$2.550	\$0.850
SPP North Hub Day-Ahead Peak Fixed Price Future	FNP	FNP	340	\$0.850	\$2.550	\$2.550	\$0.850
SPP South Hub Day-Ahead Peak Fixed Price Future	FSP	FSP	340	\$0.850	\$2.550	\$2.550	\$0.850
PJM Western Hub Real-Time Off-Peak Fixed Price Future	OPJ	OPJ	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM Western Hub Real-Time Off-Peak Calendar Year One Time Fixed Price Future	OPJ	PWC	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM Western Hub Day-Ahead Off-Peak Fixed Price Future	PJD	PJD	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM AECO Zone Day-Ahead Off-Peak Fixed Price Future	PTD	PTD	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM AEP Dayton Hub Day-Ahead Off-Peak Fixed Price Future	ADD	ADD	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM AEP Dayton Hub Real-Time Off-Peak Fixed Price Future	AOD	AOD	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM AEP Zone Real-Time Off-Peak Mini Fixed Price Future	PAT	PAT	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM APS Zone Day-Ahead Off-Peak Fixed Price Future	PUD	PUD	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM ATSI Zone Day-Ahead Off-Peak Fixed Price Future	PAW	PAW	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM BGE Zone Day-Ahead Off-Peak Fixed Price Future	BGZ	BGZ	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM ComEd Zone Day-Ahead Off-Peak Fixed Price Future	CEO	CEO	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM DAY Zone Day-Ahead Off-Peak Fixed Price Future	DCO	DCO	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM DEOK Zone Day-Ahead Off-Peak Fixed Price Future	DEO	DEO	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM DOM Day-Ahead Off-Peak Fixed Price Future	DOO	DOO	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM DPL Zone Day-Ahead Off-Peak Fixed Price Future	PXD	PXD	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM Duquesne Zone Day-Ahead Off-Peak Fixed Price Future	PQD	PQD	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM Eastern Hub Day-Ahead Off-Peak Fixed Price Future	PED	PED	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM FE Ohio Real-Time Off-Peak Mini Fixed Price Future	PFO	PFO	390	\$0.975	\$2.925	\$2.925	\$0.975

\*Average number of MWh per month

## US Financial Power - East - Monthly - Variable Sized - Cleared (Continued)

Futures Description	ICE	ICE	Lot	Screen	ICE Clear EU Screen	ICE Clear EU Block, EFS	Cash Settle (per lot)
	Logical Code	Physical Code	Size (MWh)*	Futures Fee (per lot)	Fee (per lot)	Fee (per lot)	
PJM JCPL Zone Day-Ahead Off-Peak Fixed Price Future	JCD	JCD	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM METED Zone Day-Ahead Off-Peak Fixed Price Future	PMD	PMD	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM NI Hub Day-Ahead Off-Peak Fixed Price Future	NID	NID	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM NI Hub Real-Time Off-Peak Fixed Price Future	NIO	NIO	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM PECO Zone Day-Ahead Off-Peak Fixed Price Future	PCO	PCO	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM PENELEC Zone Day-Ahead Off-Peak Fixed Price Future	PZD	PZD	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM Penn Power Day-Ahead Off-Peak Fixed Price Future	PEO	PEO	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM PEPCO MD Day-Ahead Off-Peak Fixed Price Future	PCQ	PCQ	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM PEPCO Zone Day-Ahead Off-Peak Fixed Price Future	PPH	PPH	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM PPL Zone Day-Ahead Off-Peak Fixed Price Future	PPO	PPO	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM PSEG Day-Ahead Off-Peak Fixed Price Future	PSB	PSB	390	\$0.975	\$2.925	\$2.925	\$0.975
PJM Southimp Day-Ahead Off-Peak Fixed Price Future	SIO	SIO	390	\$0.975	\$2.925	\$2.925	\$0.975
MISO Arkansas Hub Day-Ahead Off-Peak Fixed Price Future	ALO	ALO	390	\$0.975	\$2.925	\$2.925	\$0.975
MISO AML BGS6 Day-Ahead Off-Peak Fixed Price Future	BGB	BGB	390	\$0.975	\$2.925	\$2.925	\$0.975
MISO Indiana Hub Day-Ahead Off-Peak Fixed Price Future	MCD	MCD	390	\$0.975	\$2.925	\$2.925	\$0.975
MISO Indiana Hub Real-Time Off-Peak Fixed Price Future	CPO	CPO	390	\$0.975	\$2.925	\$2.925	\$0.975
MISO Illinois Hub Day-Ahead Off-Peak Fixed Price Future	MLD	MLD	390	\$0.975	\$2.925	\$2.925	\$0.975
MISO Louisiana Hub Day-Ahead Off-Peak Fixed Price Future	LFO	LFO	390	\$0.975	\$2.925	\$2.925	\$0.975
MISO Minnesota Hub Day-Ahead Off-Peak Fixed Price Future	MDO	MDO	390	\$0.975	\$2.925	\$2.925	\$0.975
MISO Michigan Hub Day-Ahead Off-Peak Fixed Price Future	MGQ	MGQ	390	\$0.975	\$2.925	\$2.925	\$0.975
MISO Texas Hub Day-Ahead Off-Peak Fixed Price Future	TDQ	TDQ	390	\$0.975	\$2.925	\$2.925	\$0.975
MISO Texas Hub Real-Time Off-Peak Fixed Price Future	TPO	TPO	390	\$0.975	\$2.925	\$2.925	\$0.975
ERCOT Houston 345KV Day-Ahead Off-Peak Fixed Price Future	EKI	EKI	390	\$0.975	\$2.925	\$2.925	\$0.975
ERCOT West 345KV Day-Ahead Off-Peak Fixed Price Future	EKJ	EKJ	390	\$0.975	\$2.925	\$2.925	\$0.975
ERCOT South 345KV Day-Ahead Off-Peak Fixed Price Future	EKK	EKK	390	\$0.975	\$2.925	\$2.925	\$0.975
ERCOT Houston 345KV Real-Time Off-Peak Fixed Price Future	HEB	HEB	390	\$0.975	\$2.925	\$2.925	\$0.975
ERCOT Houston Load Zone Real-Time Off-Peak Fixed Price Future	OEH	OEH	390	\$0.975	\$2.925	\$2.925	\$0.975
ERCOT Houston Load Zone Day-Ahead Off-Peak Fixed Price Future	HZD	HZD	390	\$0.975	\$2.925	\$2.925	\$0.975
ERCOT North 345KV Real-Time Off-Peak Fixed Price Future	NEB	NEB	390	\$0.975	\$2.925	\$2.925	\$0.975
ERCOT North 345KV Day-Ahead Off-Peak Fixed Price Future	NEV	NEV	390	\$0.975	\$2.925	\$2.925	\$0.975
ERCOT North Load Zone Real-Time Off-Peak Fixed Price Future	OEN	OEN	390	\$0.975	\$2.925	\$2.925	\$0.975
ERCOT North Load Zone Day-Ahead Off-Peak Fixed Price Future	NZD	NZD	390	\$0.975	\$2.925	\$2.925	\$0.975
ERCOT South 345KV Real-Time Off-Peak Fixed Price Future	SEB	SEB	390	\$0.975	\$2.925	\$2.925	\$0.975
ERCOT South Load Zone Real-Time Off-Peak Fixed Price Future	OES	OES	390	\$0.975	\$2.925	\$2.925	\$0.975
ERCOT South Load Zone Day-Ahead Off-Peak Fixed Price Future	SZD	SZD	390	\$0.975	\$2.925	\$2.925	\$0.975
ERCOT West 345KV Real-Time Off-Peak Fixed Price Future	WEB	WEB	390	\$0.975	\$2.925	\$2.925	\$0.975
ERCOT West Load Zone Real-Time Off-Peak Fixed Price Future	OEW	OEW	390	\$0.975	\$2.925	\$2.925	\$0.975
ERCOT West Load Zone Day-Ahead Off-Peak Fixed Price Future	WZD	WZD	390	\$0.975	\$2.925	\$2.925	\$0.975
ISO New England Connecticut Day-Ahead Off-Peak Fixed Price Future	ICO	ICO	390	\$0.975	\$2.925	\$2.925	\$0.975
ISO New England Massachusetts Hub Day-Ahead Off-Peak Fixed Price Future	NOP	NOP	390	\$0.975	\$2.925	\$2.925	\$0.975
ISO New England NE Massachusetts Day-Ahead Off-Peak Fixed Price Future	IND	IND	390	\$0.975	\$2.925	\$2.925	\$0.975
ISO New England SE Massachusetts Day-Ahead Off-Peak Fixed Price Future	IMD	IMD	390	\$0.975	\$2.925	\$2.925	\$0.975
ISO New England Maine Day-Ahead Off-Peak Fixed Price Future	IED	IED	390	\$0.975	\$2.925	\$2.925	\$0.975
ISO New England New Hampshire Day-Ahead Off-Peak Fixed Price Future	IHD	IHD	390	\$0.975	\$2.925	\$2.925	\$0.975
ISO New England West Central Massachusetts Day-Ahead Off-Peak Fixed Price Future	IWD	IWD	390	\$0.975	\$2.925	\$2.925	\$0.975
ISO New England Rhode Island Day-Ahead Off-Peak Mini Fixed Price Future	RIZ	RIZ	390	\$0.975	\$2.925	\$2.925	\$0.975
NYISO Zone A Day-Ahead Off-Peak Fixed Price Future	AOP	AOP	390	\$0.975	\$2.925	\$2.925	\$0.975
NYISO Zone B Day-Ahead Off-Peak Fixed Price Future	ZBD	ZBD	390	\$0.975	\$2.925	\$2.925	\$0.975
NYISO Zone C Day-Ahead Off-Peak Fixed Price Future	ZCD	ZCD	390	\$0.975	\$2.925	\$2.925	\$0.975
NYISO Zone D Day-Ahead Off-Peak Fixed Price Future	NDS	NDS	390	\$0.975	\$2.925	\$2.925	\$0.975
NYISO Zone E Day-Ahead Off-Peak Fixed Price Future	ZED	ZED	390	\$0.975	\$2.925	\$2.925	\$0.975
NYISO Zone F Day-Ahead Off-Peak Fixed Price Future	ZFD	ZFD	390	\$0.975	\$2.925	\$2.925	\$0.975
NYISO Zone G Day-Ahead Off-Peak Fixed Price Future	NGO	NGO	390	\$0.975	\$2.925	\$2.925	\$0.975
NYISO Zone I Day-Ahead Off-Peak Fixed Price Future	ZIL	ZIL	390	\$0.975	\$2.925	\$2.925	\$0.975
NYISO Zone J Day-Ahead Off-Peak Fixed Price Future	NJO	NJO	390	\$0.975	\$2.925	\$2.925	\$0.975
NYISO Zone K Day-Ahead Off-Peak Fixed Price Future	ZKD	ZKD	390	\$0.975	\$2.925	\$2.925	\$0.975
SPP North Hub Day-Ahead Off-Peak Fixed Price Future	FNO	FNO	390	\$0.975	\$2.925	\$2.925	\$0.975
SPP South Hub Day-Ahead Off-Peak Fixed Price Future	FSO	FSO	390	\$0.975	\$2.925	\$2.925	\$0.975

\*Average number of MWh per month

## US Financial Power - East - Daily - Cleared

Futures Description	ICE	ICE	Lot	Screen	ICE Clear EU Screen	ICE Clear EU Block, EFS	Cash Settle (per lot)
	Logical Code	Physical Code	Size	Futures Fee (per lot)	Fee (per lot)	Fee (per lot)	
PJM Western Hub Real-Time Peak Daily Fixed Price Future	PDP	PDP	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
PJM Western Hub Real-Time Peak Daily Look Back Fixed Price Future	PDP	PDO	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
PJM Western Hub Real-Time Peak Weekly Future	PJH	PJH	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
PJM Western Hub Day-Ahead Peak Daily Fixed Price Future	PDA	PDA	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
PJM AEP Dayton Hub Real-Time Peak Daily Look Back Fixed Price Future	DDO	DDO	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
PJM AEP Dayton Hub Real-Time Peak Daily Fixed Price Future	DDP	DDP	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
PJM AEP Zone Day-Ahead Peak Daily Fixed Price Future	PAH	PAH	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
PJM ATSI Zone Day-Ahead Peak Daily Fixed Price Future	PAK	PAK	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
PJM FE Ohio Day-Ahead Peak Daily Fixed Price Future	PFJ	PFJ	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
PJM NI Hub Real-Time Peak Daily Fixed Price Future	NDP	NDP	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
MISO Arkansas Hub Day-Ahead Peak Daily Fixed Price Future	MRD	MRD	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
MISO Indiana Hub Day-Ahead Peak Daily Fixed Price Future	MDA	MDA	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
MISO Indiana Hub Real-Time Peak Daily Look Back Fixed Price Future	IDO	IDO	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
MISO Indiana Hub Real-Time Peak Daily Fixed Price Future	IDP	IDP	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
MISO Louisiana Hub Day-Ahead Peak Daily Fixed Price Future	MLQ	MLQ	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000

## US Financial Power - East - Daily - Cleared (Continued)

Futures Description	ICE	ICE	Lot	Screen	ICE Clear EU Screen	ICE Clear EU Block, EFS	Cash Settle (per lot)
	Logical Code	Physical Code	Size	Futures Fee (per lot)	Fee (per lot)	Fee (per lot)	
MISO Texas Hub Day-Ahead Peak Daily Fixed Price Daily Future	MDR	MDR	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
ERCOT Houston 345KV Real-Time Peak Daily Fixed Price Future	EHD	EHD	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
ERCOT North 345KV Hub Real-Time Peak Daily Look Back Fixed Price Future	ENO	ENO	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
ERCOT North 345KV Real-Time Peak Daily Fixed Price Future	END	END	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
ERCOT South 345KV Real-Time Peak Daily Fixed Price Future	ESD	ESD	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
ERCOT West 345KV Real-Time Peak Daily Fixed Price Fixed Price Future	EWD	EWD	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
ISO New England Massachusetts Hub Day-Ahead Peak Daily Fixed Price Future	EDP	EDP	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
ISO New England Massachusetts Hub Real Time Peak Daily Fixed Price Future	NMD	NMD	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
NYISO Zone A Day-Ahead Peak Daily Fixed Price Future	ADP	ADP	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
NYISO Zone C Day-Ahead LBMP Peak Daily Fixed Price Future	NCP	NCP	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
NYISO Zone F Day-Ahead LBMP Peak Daily Fixed Price Future	NFP	NFP	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
NYISO Zone G Day-Ahead Peak Daily Fixed Price Future	GDP	GDP	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
NYISO Zone J Day-Ahead Peak Daily Fixed Price Future	JDP	JDP	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
NYISO Zone K Day-Ahead Daily Peak Fixed Price Future	NKP	NKP	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
NYISO Zone A Real Time Peak Daily Fixed Price Future	NRR	NRR	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
NYISO Zone D Day Ahead Peak Daily Fixed Price Future	NDL	NDL	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
NYISO Zone G Real Time Peak Daily Fixed Price Future	NRN	NRN	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
SPP North Hub Day-Ahead Peak Daily Fixed Price Future	SNR	SNR	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
SPP North Hub Real Time Peak Daily Fixed Price Future	SPW	SPW	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
SPP South Hub Day-Ahead Peak Daily Fixed Price Future	SPD	SPD	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
SPP South Hub Real Time Peak Daily Fixed Price Future	SSR	SSR	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
PJM Western Hub Real-Time Off-Peak Daily Fixed Price Future	ODP	ODP	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
PJM Western Hub Day-Ahead Off-Peak Daily Fixed Price Future	PDO	PDO	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
PJM AEP Dayton Hub Real-Time Off-Peak Daily Fixed Price Future	ADO	ADO	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
PJM AEP Zone Day-Ahead Off-Peak Daily Fixed Price Future	PAI	PAI	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
PJM ATSI Zone Day-Ahead Off-Peak Fixed Price Future	PAL	PAL	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
PJM FE Ohio Day-Ahead Off-Peak Daily Fixed Price Future	PFK	PFK	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
PJM NI Hub Real-Time Off-Peak Daily Fixed Price Future	NDO	NDO	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
MISO Arkansas Hub Day-Ahead Off-Peak Daily Fixed Price Future	MRE	MRE	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
MISO Indiana Hub Real-Time Off-Peak Daily Fixed Price Future	IOP	IOP	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
MISO Indiana Hub Day-Ahead Off-Peak Daily Fixed Price Future	MOD	MOD	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
MISO Louisiana Hub Day-Ahead Off-Peak Fixed Price Daily Future	MLR	MLR	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
MISO Texas Hub Day-Ahead Off-Peak Daily Fixed Price Future	MDS	MDS	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
ERCOT Houston 345KV Real-Time Off-Peak Daily Fixed Price Future	HED	HED	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
ERCOT North 345KV Real-Time Off-Peak Daily Fixed Price Future	NED	NED	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
ERCOT South 345KV Real-Time Off-Peak Daily Fixed Price Future	SED	SED	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
ERCOT West 345KV Real-Time Off-Peak Daily Fixed Price Future	WED	WED	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
ISO New England Massachusetts Hub Day-Ahead Off-Peak Daily Fixed Price Future	POP	POP	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
NYISO Zone A Day-Ahead Off-Peak Daily Fixed Price Future	APO	APO	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
NYISO Zone C Day-Ahead LBMP Off-Peak Daily Fixed Price Future	NCO	NCO	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
NYISO Zone F Day-Ahead LBMP Off-Peak Daily Fixed Price Future	NFO	NFO	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
NYISO Zone G Day-Ahead Off-Peak Daily Fixed Price Future	NOD	NOD	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
NYISO Zone J Day-Ahead Off-Peak Daily Fixed Price Future	NOJ	NOJ	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
NYISO Zone K Day-Ahead Daily Off-Peak Fixed Price Future	NKO	NKO	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
NYISO Zone A Real Time Off-Peak Daily Fixed Price Future	NRS	NRS	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
NYISO Zone D Real Time Off-Peak Daily Fixed Price Future	NDM	NDM	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
NYISO Zone G Real Time Off-Peak Daily Fixed Price Future	NRQ	NRQ	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
SPP North Hub Day-Ahead Off-Peak Daily Fixed Price Future	SNO	SNO	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
SPP North Hub Real Time Off-Peak Daily Fixed Price Future	SPX	SPX	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
SPP South Hub Day-Ahead Off-Peak Daily Fixed Price Future	SPF	SPF	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12
SPP South Hub Real-Time Off-Peak Daily Fixed Price Future	SSO	SSO	50 MWh	\$0.125	\$0.245	\$0.245	\$0.12

## US Financial Power - East - Daily - Mini - Cleared

Futures Description	ICE	ICE	Lot	Screen	ICE Clear EU Screen	ICE Clear EU Block, EFS	Cash Settle (per lot)
	Logical Code	Physical Code	Size	Futures Fee (per lot)	Fee (per lot)	Fee (per lot)	
PJM AEP Dayton Hub Day-Ahead Peak Daily Fixed Price Future	ADA	ADA	16 MWh	\$0.040	\$0.080	\$0.080	\$0.040
PJM Eastern Hub Day-Ahead Peak Daily Fixed Price Future	PEA	PEA	16 MWh	\$0.040	\$0.080	\$0.080	\$0.040
PJM NI Hub Day-Ahead Peak Daily Fixed Price Future	NIA	NIA	16 MWh	\$0.040	\$0.080	\$0.080	\$0.040
PJM PEPCO Zone Day-Ahead Peak Daily Fixed Price Future	PPE	PPE	16 MWh	\$0.040	\$0.080	\$0.080	\$0.040
PJM PSEG Day-Ahead Peak Daily Fixed Price Future	PSC	PSC	16 MWh	\$0.040	\$0.080	\$0.080	\$0.040
PJM JCP&L Zone Day-Ahead Peak Daily Fixed Price Future	JCA	JCA	16 MWh	\$0.040	\$0.080	\$0.080	\$0.040
ERCOT Houston 345KV Hub Day-Ahead Peak Daily Fixed Price Future	HEA	HEA	16 MWh	\$0.040	\$0.080	\$0.080	\$0.040
ERCOT Houston Load Zone Day-Ahead Peak Daily Fixed Price Future	HZA	HZA	16 MWh	\$0.040	\$0.080	\$0.080	\$0.040
ERCOT North 345KV Hub Day-Ahead Peak Daily Fixed Price Future	NDA	NDA	16 MWh	\$0.040	\$0.080	\$0.080	\$0.040
ERCOT North Load Zone Day-Ahead Peak Daily Fixed Price Future	NZA	NZA	16 MWh	\$0.040	\$0.080	\$0.080	\$0.040
ERCOT South 345KV Hub Day-Ahead Peak Daily Fixed Price Future	SEA	SEA	16 MWh	\$0.040	\$0.080	\$0.080	\$0.040
ERCOT South Load Zone Day-Ahead Peak Daily Fixed Price Future	SZA	SZA	16 MWh	\$0.040	\$0.080	\$0.080	\$0.040
ERCOT West 345KV Hub Day-Ahead Peak Daily Fixed Price Future	WEA	WEA	16 MWh	\$0.040	\$0.080	\$0.080	\$0.040
ERCOT West Load Zone Day-Ahead Peak Daily Fixed Price Future	WZA	WZA	16 MWh	\$0.040	\$0.080	\$0.080	\$0.040
PJM AECCO Zone Day-Ahead Peak Daily 80 MWh Fixed Price Future	PME	PME	80 MWh	\$0.200	\$0.400	\$0.400	\$0.200
PJM BGE Zone Day-Ahead Peak Daily 80 MWh Fixed Price Future	PMN	PMN	80 MWh	\$0.200	\$0.400	\$0.400	\$0.200
PJM COMED Zone Day-Ahead Peak Daily 80 MWh Fixed Price Future	PDV	PDV	80 MWh	\$0.200	\$0.400	\$0.400	\$0.200
PJM DEOK Zone Day-Ahead Peak Daily 80 MWh Fixed Price Future	PPF	PPF	80 MWh	\$0.200	\$0.400	\$0.400	\$0.200
PJM MetEd Zone Day-Ahead Peak Daily 80 MWh Fixed Price Future	PFR	PFR	80 MWh	\$0.200	\$0.400	\$0.400	\$0.200
PJM Peco Zone Day-Ahead Peak Daily 80 MWh Fixed Price Future	PFT	PFT	80 MWh	\$0.200	\$0.400	\$0.400	\$0.200
PJM PPL Zone Day-Ahead Peak Daily 80 MWh Fixed Price Future	PMV	PMV	80 MWh	\$0.200	\$0.400	\$0.400	\$0.200
ERCOT North 345KV Hub Day-Ahead Peak Daily 80 MWh Fixed Price Future	NDB	NDB	80 MWh	\$0.200	\$0.400	\$0.400	\$0.200
MISO Michigan Hub Day-Ahead Peak Daily Fixed Price Future	MIL	MIL	80 MWh	\$0.200	\$0.400	\$0.400	\$0.200
MISO Minnesota Hub Day-Ahead Peak Daily Fixed Price Future	MDN	MDN	80 MWh	\$0.200	\$0.400	\$0.400	\$0.200
MISO AML BGS6 Day-Ahead Peak Daily Fixed Price Future	MAA	MAA	80 MWh	\$0.200	\$0.400	\$0.400	\$0.200
PJM AEP Dayton Hub Day-Ahead Off-Peak Daily Fixed Price Future	ADC	ADC	5 MWh	\$0.0125	\$0.0245	\$0.0245	\$0.012

### US Financial Power - East - Daily - Mini - Cleared (Continued)

Futures Description	ICE	ICE	Lot	Screen	ICE Clear EU Screen	ICE Clear EU Block, EFS	Cash Settle (per lot)
	Logical Code	Physical Code	Size	Futures Fee (per lot)	Fee (per lot)	Fee (per lot)	
PJM Eastern Hub Day-Ahead Off-Peak Daily Fixed Price Future	PEC	PEC	5 MWh	\$0.0125	\$0.0245	\$0.0245	\$0.012
PJM NI Hub Day-Ahead Off-Peak Daily Fixed Price Future	NIC	NIC	5 MWh	\$0.0125	\$0.0245	\$0.0245	\$0.012
PJM PEPSCO Zone Day-Ahead Off-Peak Daily Fixed Price Future	PPG	PPG	5 MWh	\$0.0125	\$0.0245	\$0.0245	\$0.012
PJM PSEG Day-Ahead Off-Peak Daily Fixed Price Future	PSD	PSD	5 MWh	\$0.0125	\$0.0245	\$0.0245	\$0.012
PJM JCLP Zone Day-Ahead Off-Peak Daily Fixed Price Future	JCC	JCC	5 MWh	\$0.0125	\$0.0245	\$0.0245	\$0.012
PJM AECO Zone Day-Ahead Off-Peak Daily Fixed Price Future	PMF	PMF	5 MWh	\$0.0125	\$0.0245	\$0.0245	\$0.012
PJM BGE Zone Day-Ahead Off-Peak Daily Fixed Price Future	PMT	PMT	5 MWh	\$0.0125	\$0.0245	\$0.0245	\$0.012
PJM COMED Zone Day-Ahead Off-Peak Daily Fixed Price Future	PDW	PDW	5 MWh	\$0.0125	\$0.0245	\$0.0245	\$0.012
PJM DEOK Zone Day-Ahead Off-Peak Daily Fixed Price Future	PFQ	PFQ	5 MWh	\$0.0125	\$0.0245	\$0.0245	\$0.012
PJM Meted Zone Day-Ahead Off-Peak Daily Fixed Price Future	PFS	PFS	5 MWh	\$0.0125	\$0.0245	\$0.0245	\$0.012
PJM Peco Zone Day-Ahead Off-Peak Daily Fixed Price Future	PFU	PFU	5 MWh	\$0.0125	\$0.0245	\$0.0245	\$0.012
PJM PPL Zone Day-Ahead Off-Peak Daily Fixed Price Future	PMW	PMW	5 MWh	\$0.0125	\$0.0245	\$0.0245	\$0.012
ERCOT Houston 345KV Hub Day-Ahead Off-Peak Daily Fixed Price Future	HEC	HEC	5 MWh	\$0.0125	\$0.0245	\$0.0245	\$0.012
ERCOT Houston Load Zone Day-Ahead Off-Peak Daily Fixed Price Future	HZC	HZC	5 MWh	\$0.0125	\$0.0245	\$0.0245	\$0.012
ERCOT North 345KV Hub Day-Ahead Off-Peak Daily Fixed Price Future	NDC	NDC	5 MWh	\$0.0125	\$0.0245	\$0.0245	\$0.012
ERCOT North Load Zone Day-Ahead Off-Peak Daily Fixed Price Future	NZC	NZC	5 MWh	\$0.0125	\$0.0245	\$0.0245	\$0.012
ERCOT South 345KV Hub Day-Ahead Off-Peak Daily Fixed Price Future	SEC	SEC	5 MWh	\$0.0125	\$0.0245	\$0.0245	\$0.012
ERCOT South Load Zone Day-Ahead Off-Peak Daily Fixed Price Future	SZC	SZC	5 MWh	\$0.0125	\$0.0245	\$0.0245	\$0.012
ERCOT West 345KV Hub Day-Ahead Off-Peak Daily Fixed Price Future	WEC	WEC	5 MWh	\$0.0125	\$0.0245	\$0.0245	\$0.012
ERCOT West Load Zone Day-Ahead Off-Peak Daily Fixed Price Future	WZC	WZC	5 MWh	\$0.0125	\$0.0245	\$0.0245	\$0.012
MISO Michigan Hub Day-Ahead Off-Peak Daily Fixed Price Future	MIM	MIM	5 MWh	\$0.0125	\$0.0245	\$0.0245	\$0.012
MISO Minnesota Hub Day-Ahead Off-Peak Daily Fixed Price Future	MDQ	MDQ	5 MWh	\$0.0125	\$0.0245	\$0.0245	\$0.012
MISO AML BGS6 Day-Ahead Off-Peak Daily Fixed Price Future	MAB	MAB	5 MWh	\$0.0125	\$0.0245	\$0.0245	\$0.012

### US Financial Power Options - East - Monthly - Cleared

Options Description	ICE	ICE	Lot	Screen	ICE Clear EU Screen	ICE Clear EU Block, EOO	Exercise (per lot)
	Logical Code	Physical Code	Size	Futures Fee (per lot)	Fee (per lot)	Fee (per lot)	
Option on PJM Western Hub Real-Time Peak Fixed Price Future	PJM	PJM	800 MWh	\$2.000	\$4.000	\$4.000	\$2.000
Option on PJM Western Hub Real-Time Peak 50MW Fixed Price Future	PJM	PMJ	50 MW	\$42.500	\$85.000	\$85.000	\$42.500
Calendar One Time Option on PJM Western Hub Real-Time Peak Calendar Year One Time Fixed Price Future	PJM	PMX	800 MWh	\$2.000	\$2.000	\$2.000	\$1.000

### US Financial Power Options - East - Daily - Cleared

Options Description	ICE	ICE	Lot	Screen	ICE Clear EU Screen	ICE Clear EU Block, EOO	Exercise (per lot)
	Logical Code	Physical Code	Size	Futures Fee (per lot)	Fee (per lot)	Fee (per lot)	
Option on PJM Western Hub Day-Ahead Peak Daily Fixed Price Future	PDA	PDA	800 MWh	\$2.00	\$4.00	\$4.00	\$1.00
Option on PJM Western Hub Real-Time Peak Daily Look Back Fixed Price Future	PDP	PDQ	800 MWh	\$2.00	\$4.00	\$4.00	\$1.00
Option on PJM Western Hub Real-Time Peak Weekly Future	PJH	PJH	800 MWh	\$2.00	\$4.00	\$4.00	\$1.00
Option on PJM AEP Dayton Hub Real-Time Peak Daily Look Back Fixed Price Future	DDO	DDO	800 MWh	\$2.00	\$4.00	\$4.00	\$2.00
Option on ERCOT North 345KV Hub Real-Time Peak Daily Look Back Fixed Price Future	ENO	ENO	800 MWh	\$2.00	\$4.00	\$4.00	\$2.00
Option on ERCOT North 345KV Day-Ahead Peak Daily 80MWh Fixed Price Future	NDB	NDB	80 MWh	\$0.200	\$0.400	\$0.400	\$0.200
Option on MISO Indiana Hub Real-Time Peak Daily Look Back Fixed Price Future	IDO	IDO	800 MWh	\$2.00	\$4.00	\$4.00	\$2.00
Option on NYISO Zone A Day-Ahead Peak Daily Fixed Price Future	ADP	ADP	800 MWh	\$2.00	\$4.00	\$4.00	\$2.00
Option on NYISO Zone G Day-Ahead Peak Daily Fixed Price Future	GDP	GDP	800 MWh	\$2.00	\$4.00	\$4.00	\$2.00
Option on ISO New England Massachusetts Hub Day-Ahead Peak Daily Fixed Price Future	EDP	EDP	800 MWh	\$2.00	\$4.00	\$4.00	\$2.00
Option on PJM Western Hub Real-Time Off-Peak Daily Fixed Price Future	ODP	OD8	50 MWh	\$0.125	\$0.245	\$0.245	\$0.120

### US Financial Power Options - East - Monthly - Variable Sized - Cleared

Options Description	ICE	ICE	Lot	Screen	ICE Clear EU Screen	ICE Clear EU Block, EOO	Exercise (per lot)
	Logical Code	Physical Code	Size (MWh)*	Futures Fee (per lot)	Fee (per lot)	Fee (per lot)	
Option on PJM Western Hub Real-Time Peak Mini Fixed Price Future	PJM	PMI	340	\$0.850	\$1.700	\$1.700	\$0.850
Average Price Option on PJM Western Hub Real-Time Peak Monthly Future	PJM	PJG	340	\$0.850	\$1.700	\$1.700	\$0.850
Average Price Option on PJM Western Hub Day-Ahead Peak Monthly Future	PJC	PJF	340	\$0.850	\$1.700	\$1.700	\$0.850
Calendar One Time Option on PJM Western Hub Real-Time Peak Calendar Year One Time Mini Fixed Price Future	PJM	PMM	340	\$0.850	\$0.850	\$0.850	\$0.425
Option on PJM WH Real-Time Peak Cal 1X Fixed Price Future	P1X	P1X	4080	\$10.200	\$10.200	\$10.200	\$5.10
Option on PJM AEP Dayton Hub Real-Time Peak Fixed Price Future	MSO	MSO	340	\$0.850	\$2.550	\$2.550	\$0.850
Option on ERCOT North 345KV Real-Time Peak Fixed Price Future	ERN	ERN	340	\$0.850	\$2.550	\$2.550	\$0.850
Option on MISO Indiana Hub Real-Time Peak Fixed Price Future	CIN	CIN	340	\$0.850	\$2.550	\$2.550	\$0.850
Option on ISO New England Massachusetts Hub Day-Ahead Peak Fixed Price Future	NEP	NEP	340	\$0.850	\$2.550	\$2.550	\$0.850
Calendar One Time Option on ISO New England Massachusetts Hub Day-Ahead Peak Calendar Year One Time Fixed Price Future	NEP	NEX	340	\$0.850	\$2.550	\$2.550	\$0.850
Option on NYISO Zone A Day-Ahead Peak Fixed Price Future	NAY	NAY	340	\$0.850	\$2.550	\$2.550	\$0.850
Option on NYISO Zone G Day-Ahead Peak Fixed Price Future	NGY	NGY	340	\$0.850	\$2.550	\$2.550	\$0.850
Option on PJM Western Hub Real-Time Off-Peak Fixed Price Future	OPJ	OPJ	390	\$0.975	\$2.925	\$2.925	\$0.975
Calendar One Time Option on PJM Western Hub Real-Time Off-Peak Calendar Year One Time Fixed Price Future	OPJ	PWC	390	\$0.975	\$2.925	\$2.925	\$0.975
Option on PJM AEP Dayton Hub Real-Time Off-Peak Fixed Price Future	AOD	AOD	390	\$0.975	\$2.925	\$2.925	\$0.975

\*Average number of MWh per month

### US Financial Power - West - Monthly - Variable Sized - Cleared

Futures Description	ICE	ICE	Lot	Screen	ICE Clear EU Screen	ICE Clear EU Block, EFS	Cash Settle (per lot)
	Logical Code	Physical Code	Size (MWh)*	Futures Fee (per lot)	Fee (per lot)	Fee (per lot)	
Mid-Columbia Day-Ahead Peak Fixed Price Future	MDC	MDC	410	\$1.025	\$3.075	\$3.075	\$1.025
CAISO NP-15 Day-Ahead Peak Fixed Price Future	NPM	NPM	410	\$1.025	\$3.075	\$3.075	\$1.025
CAISO SP-15 Day-Ahead Peak Fixed Price Future	SPM	SPM	410	\$1.025	\$3.075	\$3.075	\$1.025
Palo Verde Day-Ahead Peak Fixed Price Future	PVM	PVM	410	\$1.025	\$3.075	\$3.075	\$1.025

\*Average number of MWh per month

## US Financial Power - West - Monthly - Variable Sized - Cleared (Continued)

Futures Description	ICE	ICE	Lot	Screen	ICE Clear EU Screen	ICE Clear EU Block, EFS	Cash Settle (per lot)
	Logical Code	Physical Code	Size (MWh)*	Futures Fee (per lot)	Fee (per lot)	Fee (per lot)	
Mid-Columbia Day-Ahead Off-Peak Fixed Price Future	OMC	OMC	320	\$0.800	\$2.400	\$2.400	\$0.800
CAISO NP-15 Day-Ahead Off-Peak Fixed Price Future	ONP	ONP	320	\$0.800	\$2.400	\$2.400	\$0.800
CAISO SP-15 Day-Ahead Off-Peak Fixed Price Future	OFF	OFF	320	\$0.800	\$2.400	\$2.400	\$0.800
Palo Verde Day-Ahead Off-Peak Fixed Price Future	OVP	OVP	320	\$0.800	\$2.400	\$2.400	\$0.800

\*Average number of MWh per month

## US Financial Power - West - Daily - Cleared

Futures Description	ICE	ICE	Lot	Screen	ICE Clear EU Screen	ICE Clear EU Block, EFS	Cash Settle (per lot)
	Logical Code	Physical Code	Size	Futures Fee (per lot)	Fee (per lot)	Fee (per lot)	
Mid-Columbia Day-Ahead Peak Daily Fixed Price Future	MPD	MPD	400 MWh	\$1.000	\$2.000	\$2.000	\$1.000
CAISO Malin Day-Ahead Peak Daily Fixed Price Future	CCL	CCL	400 MWh	\$1.000	\$2.000	\$2.000	\$1.000
CAISO NP-15 Day-Ahead Peak Daily Fixed Price Future	DPN	DPN	400 MWh	\$1.000	\$2.000	\$2.000	\$1.000
CAISO NP-15 Fifteen Minute Marker Peak Daily Fixed Price Future	CIP	CIP	400 MWh	\$1.000	\$2.000	\$2.000	\$1.000
CAISO NP-15 Real-Time Peak Daily Fixed Price Future	NRP	NRP	400 MWh	\$1.000	\$2.000	\$2.000	\$1.000
CAISO NP-15 Peak Daily HE 0900-1600 Fixed Price Future	CAD	CAD	200 MWh	\$0.500	\$1.000	\$1.000	\$0.500
CAISO SP-15 Peak Daily HE 0900-1600 Fixed Price Future	CAE	CAE	200 MWh	\$0.500	\$1.000	\$1.000	\$0.500
Palo Verde Day-Ahead Peak Daily Fixed Price Future	VDP	VDP	400 MWh	\$1.000	\$2.000	\$2.000	\$1.000

## US Financial Power - West - Daily - Cleared (Continued)

Futures Description	ICE	ICE	Lot	Screen	ICE Clear EU Screen	ICE Clear EU Block, EFS	Cash Settle (per lot)
	Logical Code	Physical Code	Size	Futures Fee (per lot)	Fee (per lot)	Fee (per lot)	
CAISO SP-15 Day-Ahead Peak Daily Fixed Price Future	SDP	SDP	400 MWh	\$1.000	\$2.000	\$2.000	\$1.000
CAISO SP-15 Fifteen Minute Marker Peak Daily Fixed Price Future	CSY	CSY	400 MWh	\$1.000	\$2.000	\$2.000	\$1.000
CAISO SP-15 Real-Time Peak Daily Fixed Price Future	SRP	SRP	400 MWh	\$1.000	\$2.000	\$2.000	\$1.000
CAISO Palo Verde Day-Ahead Peak Daily Fixed Price Future	CPC	CPC	16 MWh	\$0.040	\$0.080	\$0.080	\$0.040
Mid-Columbia Day-Ahead Off-Peak Daily Fixed Price Future	MXO	MXO	25 MWh	\$0.0625	\$0.1225	\$0.1225	\$0.060
CAISO NP-15 Day-Ahead Off-Peak Daily Fixed Price Future	UNP	UNP	25 MWh	\$0.0625	\$0.1225	\$0.1225	\$0.060
CAISO NP-15 Fifteen Minute Marker Off-Peak Daily Fixed Price Future	CIQ	CIQ	25 MWh	\$0.0625	\$0.1225	\$0.1225	\$0.060
CAISO NP-15 Real-Time Off-Peak Daily Fixed Price Future	NRO	NRO	25 MWh	\$0.0625	\$0.1225	\$0.1225	\$0.060
Palo Verde Day-Ahead Off-Peak Daily Fixed Price Future	QVP	QVP	25 MWh	\$0.0625	\$0.1225	\$0.1225	\$0.060
CAISO SP-15 Day-Ahead Off-Peak Daily Fixed Price Future	SQP	SQP	25 MWh	\$0.0625	\$0.1225	\$0.1225	\$0.060
CAISO SP-15 Fifteen Minute Marker Off-Peak Daily Fixed Price Future	CSZ	CSZ	25 MWh	\$0.0625	\$0.1225	\$0.1225	\$0.060
CAISO SP-15 Real-Time Off-Peak Daily Fixed Price Future	SRO	SRO	25 MWh	\$0.0625	\$0.1225	\$0.1225	\$0.060

## US Financial Power Options - West - Daily - Cleared

Options Description	ICE	ICE	Lot	Screen	ICE Clear EU Screen	ICE Clear EU Block, EOO	Exercise (per lot)
	Logical Code	Physical Code	Size	Futures Fee (per lot)	Fee (per lot)	Fee (per lot)	
Option on CAISO NP-15 Day-Ahead Peak Daily Fixed Price Future	DPN	DPN	400 MWh	\$1.000	\$2.000	\$2.000	\$1.000
Option on CAISO SP-15 Day-Ahead Peak Daily Fixed Price Future	SDP	SDP	400 MWh	\$1.000	\$2.000	\$2.000	\$1.000
Option on Mid-Columbia Day-Ahead Peak Daily Fixed Price Future	MPD	MPD	400 MWh	\$1.000	\$2.000	\$2.000	\$1.000

## US Financial Power Options - West - Monthly - Variable Sized - Cleared

Options Description	ICE	ICE	Lot	Screen	ICE Clear EU Screen	ICE Clear EU Block, EOO	Exercise (per lot)
	Logical Code	Physical Code	Size	Futures Fee (per lot)	Fee (per lot)	Fee (per lot)	
Option on Mid-Columbia Day-Ahead Peak Fixed Price Future	MDC	MDC	410	\$1.025	\$3.075	\$3.075	\$1.025
Option on CAISO NP-15 Day-Ahead Peak Fixed Price Future	NPM	NPM	410	\$1.025	\$3.075	\$3.075	\$1.025
Option on CAISO SP-15 Day-Ahead Peak Fixed Price Future	SPM	SPM	410	\$1.025	\$3.075	\$3.075	\$1.025
Option on Palo Verde Day-Ahead Peak Fixed Price Future	PVM	PVM	410	\$1.025	\$3.075	\$3.075	\$1.025
Option on Mid-Columbia Day-Ahead Off-Peak Fixed Price Future	OMC	OMC	320	\$0.800	\$2.400	\$2.400	\$0.800
Option on CAISO SP-15 Day-Ahead Off-Peak Fixed Price Future	OFF	OFF	320	\$0.800	\$2.400	\$2.400	\$0.800

## US Financial Power - Cleared

Payment (Cleared Transactions)

The clearinghouse will collect the commission from Participant's FCM account on behalf of ICE no later than the first business day after the Transaction was Executed. ICE will rebate to Participant amounts collected in excess, if any, of the rates above within 30 days of the end of the month in which the Transaction was Executed.

Minimum commission of \$600 per month per user.

## Physical Environmental - Cleared

Futures Description	ICE	ICE	Lot	Screen	ICE Clear EU Screen	ICE Clear EU Block, EFP	Delivery Fee (per lot)
	Logical Code	Physical Code	Size	Futures Fee (per lot)	Fee (per lot)	Fee (per lot)	
Ontario Carbon Allowance Future - Vintage 2017 - Vintage 2018 - Vintage 2019 - Vintage 2020 - Vintage 2021 - Vintage 2021	OC7 OC8 OC9 OC0 OC0 OC1	OC7 OC8 OC9 OC0 OC0 OC1	1,000 Allowances	\$2.00	\$3.00	\$3.00	\$5.00
California Carbon Allowance Future - Vintage 2013 - Vintage 2014 - Vintage 2015 - Vintage 2016 - Vintage 2017 - Vintage 2018 - Vintage 2019 - Vintage 2020	CAL CAM CAN CAO CAP CAW CAX CAY	CAL CAM CAN CAO CAP CAW CAX CAY	1,000 Allowances	\$2.00	\$3.00	\$3.00	\$5.00
California Carbon Allowance Vintage Specific Future - Vintage 2017 - Vintage 2018 - Vintage 2019 - Vintage 2020	CA7 CA8 CA9 CC0	CA7 CA8 CA9 CC0	1,000 Allowances	\$2.00	\$3.00	\$3.00	\$5.00

## Physical Environmental - Cleared (Continued)

Futures Description	ICE	ICE	Lot	Screen	ICE Clear EU Screen	ICE Clear EU Block, EFP	Delivery Fee (per lot)
	Logical Code	Physical Code	Size	Futures Fee (per lot)	Fee (per lot)	Fee (per lot)	
Regional Greenhouse Gas Initiative Future	RGL RGM RGN RGO RGP RGQ RGR	RGL RGM RGN RGO RGP RGQ RGR	1,000 Allowances	\$0.75	\$1.00	\$1.00	\$2.00
Carbon Financial Instrument, United States, Future	CFS	CFS	1,000 mt	\$2.00	\$2.50	\$2.50	\$5.00
Connecticut Compliance Renewable Energy Certificate Class I Future	CTT	CTT	100 MWh	\$1.50	\$2.00	\$2.00	\$3.50
Connecticut Compliance Renewable Energy Certificates Class I Future - Vintage 2015 - Vintage 2016 - Vintage 2017 - Vintage 2018 - Vintage 2019 - Vintage 2020 - Vintage 2021 - Vintage 2022 - Vintage 2023	CC5 CC6 CC7 CC8 CC9 CR0 CR1 CR2 CR3	CC5 CC6 CC7 CC8 CC9 CR0 CR1 CR2 CR3	100 MWh	\$1.50	\$2.00	\$2.00	\$3.50
Maryland Compliance Renewable Energy Credit Tier 1 Future	MDE	MDE	100 MWh	\$0.75	\$1.00	\$1.00	\$1.75
Maryland Renewable Energy Certificates Class 1 Future - Vintage 2016 - Vintage 2017 - Vintage 2018 - Vintage 2019 - Vintage 2020 - Vintage 2021 - Vintage 2022 - Vintage 2023	MC6 MC7 MC8 MC9 MC0 MC1 MC2 MC3	MC6 MC7 MC8 MC9 MC0 MC1 MC2 MC3	100 MWh	\$0.75	\$1.00	\$1.00	\$1.75
Maryland Solar Renewable Energy Credit Future	MDX	MDX	10 MWh	\$0.25	\$0.50	\$0.50	\$0.75
Maryland Solar Renewable Energy Certificates Future - Vintage 2016 - Vintage 2017 - Vintage 2018 - Vintage 2019 - Vintage 2020 - Vintage 2021 - Vintage 2022 - Vintage 2023	MD6 MD7 MD8 MD9 MD0 MD1 MD2 MD3	MD6 MD7 MD8 MD9 MD0 MD1 MD2 MD3	10 MWh	\$0.25	\$0.50	\$0.50	\$0.75
Massachusetts Compliance Renewable Energy Certificate Class I Future	MCL	MCL	100 MWh	\$1.50	\$2.00	\$2.00	\$3.50
Massachusetts Compliance Renewable Energy Certificates Class 1 Future - Vintage 2015 - Vintage 2016 - Vintage 2017 - Vintage 2018 - Vintage 2019 - Vintage 2020 - Vintage 2021 - Vintage 2022 - Vintage 2023	MB5 MB6 MB7 MB8 MB9 MB0 MB1 MB2 MB3	MB5 MB6 MB7 MB8 MB9 MB0 MB1 MB2 MB3	100 MWh	\$1.50	\$2.00	\$2.00	\$3.50
Massachusetts Solar Renewable Energy Certificate Carve Out I Future	MSF	MSF	10 MWh	\$2.00	\$3.00	\$3.00	\$5.00
Massachusetts Solar Renewable Energy Certificate Carve Out II Future	MS2	MS2	10 MWh	\$2.00	\$3.00	\$3.00	\$5.00
Massachusetts Solar Renewable Energy Certificates Future - Vintage 2015 - Vintage 2016 - Vintage 2017 - Vintage 2018 - Vintage 2019 - Vintage 2020 - Vintage 2021 - Vintage 2022 - Vintage 2023	MQ5 MQ6 MQ7 MQ8 MQ9 MQ0 MQ1 MQ2 MQ3	MQ5 MQ6 MQ7 MQ8 MQ9 MQ0 MQ1 MQ2 MQ3	10 MWh	\$2.00	\$3.00	\$3.00	\$5.00
Massachusetts Solar Renewable Energy Certificates Carve Out II Future - Vintage 2016 - Vintage 2017 - Vintage 2018 - Vintage 2019 - Vintage 2020 - Vintage 2021 - Vintage 2022 - Vintage 2023	MA6 MA7 MA8 MA9 MA0 MA1 MA2 MA3	MA6 MA7 MA8 MA9 MA0 MA1 MA2 MA3	10 MWh	\$2.00	\$3.00	\$3.00	\$5.00
NEPOOL Dual Qualified Compliance Renewable Energy Certificate Class I Future	NER	NER	100 MWh	\$1.50	\$2.00	\$2.00	\$3.50
NEPOOL Dual Qualified Class 1 Renewable Energy Certificates Future - Vintage 2016 - Vintage 2017 - Vintage 2018 - Vintage 2019 - Vintage 2020 - Vintage 2021 - Vintage 2022 - Vintage 2023	NE6 NE7 NE8 NE9 NE0 NE1 NE2 NE3	NE6 NE7 NE8 NE9 NE0 NE1 NE2 NE3	100 MWh	\$1.50	\$2.00	\$2.00	\$3.50
New Jersey Compliance Renewable Energy Certificate Class I Future	NJN	NJN	100 MWh	\$0.75	\$1.00	\$1.00	\$1.75
New Jersey Compliance Renewable Energy Certificates Class 1 Future - Vintage 2015 - Vintage 2016 - Vintage 2017 - Vintage 2018 - Vintage 2019 - Vintage 2020 - Vintage 2021 - Vintage 2022 - Vintage 2023	NCR NCS NCT NCU NCV NCW NCX NCY NCZ	NCR NCS NCT NCU NCV NCW NCX NCY NCZ	100 MWh	\$0.75	\$1.00	\$1.00	\$1.75
New Jersey Solar Renewable Energy Certificate Future	NPS	NPS	10 MWh	\$2.00	\$3.00	\$3.00	\$5.00
New Jersey Solar Renewable Energy Certificate Prior Year Future	NPR	NPR	10 MWh	\$2.00	\$3.00	\$3.00	\$5.00
New Jersey Solar Renewable Energy Certificate Future - Vintage 2013 - Vintage 2014 - Vintage 2015 - Vintage 2016 - Vintage 2017 - Vintage 2018 - Vintage 2019 - Vintage 2020 - Vintage 2021 - Vintage 2022 - Vintage 2023	NJE NJF NJG NJH NJI NJJ NJK NJL NJ1 NJ2 NJ3	NJE NJF NJG NJH NJI NJJ NJK NJL NJ1 NJ2 NJ3	10 MWh	\$2.00	\$3.00	\$3.00	\$5.00
Pennsylvania Compliance Alternative Energy Credit Tier 1 Future	PAR	PAR	100 MWh	\$0.75	\$1.00	\$1.00	\$1.75



## Physical Environmental - Cleared (Continued)

Futures Description	ICE	ICE	Lot	Screen	ICE Clear EU Screen	ICE Clear EU Block, EFP	Delivery Fee (per lot)
	Logical Code	Physical Code	Size	Futures Fee (per lot)	Fee (per lot)	Fee (per lot)	
Pennsylvania Renewable Energy Certificates Class 1 Future - Vintage 2016 - Vintage 2017 - Vintage 2018 - Vintage 2019 - Vintage 2020 - Vintage 2021 - Vintage 2022 - Vintage 2023	PC6 PC7 PC8 PC9 PC0 PC1 PC2 PC3	PC6 PC7 PC8 PC9 PC0 PC1 PC2 PC3	100 MWh	\$0.75	\$1.00	\$1.00	\$1.75
Pennsylvania Solar Alternative Energy Credit Future	PAX	PAX	10 MWh	\$0.25	\$0.50	\$0.50	\$0.75
Pennsylvania Solar Renewable Energy Certificates Future - Vintage 2016 - Vintage 2017 - Vintage 2018 - Vintage 2019 - Vintage 2020 - Vintage 2021 - Vintage 2022 - Vintage 2023	PA6 PA7 PA8 PA9 PA0 PA1 PA2 PA3	PA6 PA7 PA8 PA9 PA0 PA1 PA2 PA3	10 MWh	\$0.25	\$0.50	\$0.50	\$0.75
PJM Tri Qualified Renewable Energy Certificate Class I Future	PPR	PPR	100 MWh	\$0.75	\$1.00	\$1.00	\$1.75
PJM Tri Qualified Renewable Energy Certificate Class I Prior Year Future	PPY	PPY	100 MWh	\$0.75	\$1.00	\$1.00	\$1.75
PJM Tri-Qualified Energy Certificates Class 1 Future - Vintage 2015 - Vintage 2016 - Vintage 2017 - Vintage 2018 - Vintage 2019 - Vintage 2020 - Vintage 2021 - Vintage 2022 - Vintage 2023	TQA TQB TQC TQD TQE TOF TOG TOH TOI	TQA TQB TQC TQD TQE TOF TOG TOH TOI	100 MWh	\$0.75	\$1.00	\$1.00	\$1.75
Texas Compliance REC Future	TEC	TEC	100 MWh	\$0.75	\$1.00	\$1.00	\$1.75
Sulfur Financial Instrument Future	SFI	SFI	25 Allowances	\$0.75	\$1.00	\$1.00	\$2.00
Cross State Air Pollution Rule TR SO2 Group 1 Allowance Future - Vintage 2015	SOM	SOM	25 Allowances	\$0.75	\$1.00	\$1.00	\$1.75
Cross State Air Pollution Rule TR SO2 Group 1 Allowance Future - Vintage 2016	SOP	SOP	25 Allowances	\$0.75	\$1.00	\$1.00	\$1.75
Cross State Air Pollution Rule TR SO2 Group 1 Allowance Future - Vintage 2017	SOQ	SOQ	25 Allowances	\$0.75	\$1.00	\$1.00	\$1.75
Cross State Air Pollution Rule TR SO2 Group 2 Allowance Future - Vintage 2015	STL	STL	25 Allowances	\$0.75	\$1.00	\$1.00	\$1.75
Cross State Air Pollution Rule TR SO2 Group 2 Allowance Future - Vintage 2016	STN	STN	25 Allowances	\$0.75	\$1.00	\$1.00	\$1.75
Cross State Air Pollution Rule TR SO2 Group 2 Allowance Future - Vintage 2017	STP	STP	25 Allowances	\$0.75	\$1.00	\$1.00	\$1.75
Cross State Air Pollution Rule TR NOx Annual Allowance Future - Vintage 2015	NAL	NAL	25 Allowances	\$0.75	\$1.00	\$1.00	\$1.75
Cross State Air Pollution Rule TR NOx Annual Allowance Future - Vintage 2016	NAN	NAN	25 Allowances	\$0.75	\$1.00	\$1.00	\$1.75
Cross State Air Pollution Rule TR NOx Annual Allowance Future - Vintage 2017	NAP	NAP	25 Allowances	\$0.75	\$1.00	\$1.00	\$1.75
Cross State Air Pollution Rule TR NOx Ozone Season Allowance Future - Vintage 2015	NON	NON	25 Allowances	\$0.75	\$1.00	\$1.00	\$1.75
Cross State Air Pollution Rule TR NOx Ozone Season Allowance Future - Vintage 2016	NOO	NOO	25 Allowances	\$0.75	\$1.00	\$1.00	\$1.75
Cross State Air Pollution Rule TR NOx Ozone Season Allowance Future - Vintage 2017	NOS	NOS	25 Allowances	\$0.75	\$1.00	\$1.00	\$1.75
CAIR Annual NOx Future - Vintage 2013	CQB	CQB	5 Allowances	\$0.75	\$1.00	\$1.00	\$1.75
CAIR Ozone NOx Future - Vintage 2014	CZP	CZP	5 Allowances	\$0.75	\$1.00	\$1.00	\$1.75

## Physical Environmental Options - Cleared

Options Description	ICE	ICE	Lot	Screen	ICE Clear EU Screen	ICE Clear EU Block, EOO	Exercise (per lot)
	Logical Code	Physical Code	Size	Futures Fee (per lot)	Fee (per lot)	Fee (per lot)	
Option on Ontario Carbon Allowance Future - Vintage 201	OC7	OC7	1,000 Allowances	\$2.00	\$3.00	\$3.00	\$2.00
Option on California Carbon Allowance Future	CAL CAM CAN CAO CAP CAW CAX CAY	CAL CAM CAN CAO CAP CAW CAX CAY	1,000 Allowances	\$2.00	\$3.00	\$3.00	\$2.00
Option on California Carbon Allowance Vintage Specific Future - Vintage 2017 - Vintage 2018 - Vintage 2019	CA7 CA8 CA9	CA7 CA8 CA9	1,000 Allowances	\$2.00	\$3.00	\$3.00	\$2.00
Option on Cross State Air Pollution TR NOx Annual Allowance Future-Vintage 2015	NAL	NAL	25 Allowances	\$0.75	\$1.00	\$1.00	\$2.00
Option on Cross State Air Pollution TR NOx Annual Allowance Future-Vintage 2016	NAN	NAN	25 Allowances	\$0.75	\$1.00	\$1.00	\$2.00
Option on Cross State Air Pollution TR NOx Ozone Season Allowance Future-Vintage 2015	NON	NON	25 Allowances	\$0.75	\$1.00	\$1.00	\$2.00
Option on Cross State Air Pollution TR NOx Ozone Season Allowance Future-Vintage 2016	NOO	NOO	25 Allowances	\$0.75	\$1.00	\$1.00	\$2.00
Option on Cross State Air Pollution TR SO2 Group 1 Allowance Future-Vintage 2015	SOM	SOM	25 Allowances	\$0.75	\$1.00	\$1.00	\$2.00
Option on Cross State Air Pollution TR SO2 Group 1 Allowance Future-Vintage 2016	SOP	SOP	25 Allowances	\$0.75	\$1.00	\$1.00	\$2.00
Option on Cross State Air Pollution TR SO2 Group 2 Allowance Future-Vintage 2015	STL	STL	25 Allowances	\$0.75	\$1.00	\$1.00	\$2.00
Option on Cross State Air Pollution TR SO2 Group 2 Allowance Future-Vintage 2016	STN	STN	25 Allowances	\$0.75	\$1.00	\$1.00	\$2.00
Option on Regional Greenhouse Gas Initiative Future	RGL RGM RGN RGO RGP RGQ RGR	RGL RGM RGN RGO RGP RGQ RGR	1,000 Allowances	\$0.75	\$1.00	\$1.00	\$2.00
Option on Carbon Financial Instrument, United States, Future	CFS	CFS	1,000 mt	\$2.00	\$2.50	\$2.50	\$4.00
Option on PJM Tri-Qualified Renewable Energy Certificates Class 1 Future 1 Year - Vintage 2018	TQD	TY1	100 MWh	\$0.75	\$1.00	\$1.00	\$1.00
Option on PJM Tri-Qualified Renewable Energy Certificates Class 1 Future 2 Year - Vintage 2019	TQE	TY2	100 MWh	\$0.75	\$1.00	\$1.00	\$1.00
Option on PJM Tri-Qualified Renewable Energy Certificates Class 1 Future 3 Year - Vintage 2020	TQF	TY3	100 MWh	\$0.75	\$1.00	\$1.00	\$1.00
Options on PJM Tri Qualified Renewable Energy Certificate Class I Future	PPR	PPR	100 MWh	\$0.75	\$1.00	\$1.00	\$1.00
One Year Mid-Curve Options on PJM Tri Qualified Renewable Energy Certificate Class I Future	PPR	PPS	100 MWh	\$0.75	\$1.00	\$1.00	\$1.00
Two Year Mid-Curve Options on PJM Tri Qualified Renewable Energy Certificate Class I Future	PPR	PPT	100 MWh	\$0.75	\$1.00	\$1.00	\$1.00
Option on PJM Tri-Qualified Energy Certificates Class 1 Future - Vintage 2016 - Vintage 2017 - Vintage 2018 - Vintage 2019 - Vintage 2020 - Vintage 2021 - Vintage 2022 - Vintage 2023	TQB TQC TQD TQE TOF TOG TOH TOI	TQB TQC TQD TQE TOF TOG TOH TOI	100 MWh	\$0.75	\$1.00	\$1.00	\$1.00
Options on New Jersey Solar Renewable Energy Certificate Future	NPS	NPS	10 MWh	\$2.00	\$3.00	\$3.00	\$3.00
One Year Mid-Curve Options on New Jersey Solar Renewable Energy Certificate Future	NPS	NPP	10 MWh	\$2.00	\$3.00	\$3.00	\$3.00
Two Year Mid-Curve Options on New Jersey Solar Renewable Energy Certificate Future	NPS	NPO	10 MWh	\$2.00	\$3.00	\$3.00	\$3.00

## Physical Environmental Options - Cleared

Options Description	ICE	ICE	Lot	Screen	ICE Clear EU Screen	ICE Clear EU Block, EOO	
	Logical Code	Physical Code	Size	Futures Fee (per lot)	Fee (per lot)	Fee (per lot)	Exercise (per lot)
Option on New Jersey Solar Renewable Energy Certificate Future - Vintage 2014 - Vintage 2015 - Vintage 2016 - Vintage 2017 - Vintage 2018 - Vintage 2019 - Vintage 2020	NJF NJG NJH NJI NJJ NJK NJL	NJF NJG NJH NJI NJJ NJK NJL	10 MWh	\$2.00	\$3.00	\$3.00	\$3.00
Option on Texas Compliance Renewable Energy Certificate Future	TEC	TEC	100 MWh	\$0.75	\$1.00	\$1.00	\$1.00
Option on Sulfur Financial Instrument Future	SFM	SFM	25 Allowances	\$0.75	\$1.00	\$1.00	\$2.00

## Physical Environmental - Cleared

### Payment (Cleared Transactions)

The clearinghouse will collect the commission from Participant's FCM account on behalf of ICE no later than the first business day after the Transaction was Executed.

Minimum commission of \$50 per month per user.

# Membership Fees

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## MEMBERSHIP FEES

Membership Category	ANNUAL SUBSCRIPTION	
	MEMBER	EMISSIONS TRADING
General Participant	\$11,500	€2,500
Trade Participant	\$4,500	€2,500
Individual Participant	\$600	N/A

Membership Category	ONE OFF APPLICATION FEE	
	MEMBER	EMISSIONS TRADING
General Participant	\$4,500	€2,500
Trade Participant	\$4,500	€2,500
Individual Participant	\$800	N/A

Prices are all exclusive of any applicable VAT

1 JANUARY 2018

# DATA FEES

Note for ICE Administrators: please ensure that the following fee structure is communicated to all end users at your company when they are provided a login to the ICE Trading platform.

All fees provided in this schedule are quoted in USD currency.

## ICE FUTURES (NON S2F)

ICE ENDEX \$110 PER ID/PER MONTH	ICE FUTURES EUROPE (COMMODITIES) \$110 PER ID/PER MONTH	ICE FUTURES EUROPE (FINANCIALS) \$110 PER ID/PER MONTH
<ul style="list-style-type: none"> <li>Dutch TTF Gas Futures / Spot</li> <li>German NCG Gas Futures</li> <li>German Gaspool Gas Futures</li> <li>Italian PSV Gas Futures</li> <li>Belgian ZTP Gas Futures / Spot</li> <li>UK OCM Gas Spot / Indices</li> <li>European Financial Power Futures</li> <li>Dutch Physical Power Futures</li> <li>Belgian Physical Power Futures</li> </ul>	<ul style="list-style-type: none"> <li>Brent Futures</li> <li>Coal</li> <li>Emissions (EUA, CER, EUAA)</li> <li>Low Sulphur Gas Oil</li> <li>Heating Oil Futures</li> <li>Middle East Sour Crude</li> <li>London Softs</li> <li>UK Natural Gas</li> <li>RBOB Futures</li> <li>UK Electricity</li> <li>WTI Futures</li> </ul>	<ul style="list-style-type: none"> <li>Short Term Interest Rate (STIR) Futures</li> <li>Bond Derivatives</li> <li>Swapnote®</li> <li>GCF Repo</li> <li>ERIS Interest Rate Futures</li> <li>Single Stock Futures</li> <li>Index Futures</li> <li>Dividend Adjust Stock Futures</li> </ul>
ICE FUTURES CANADA \$35 PER ID/PER MONTH	ICE FUTURES SINGAPORE \$0 PER ID/PER MONTH	ICE FUTURES U.S. \$110 PER ID/PER MONTH
<ul style="list-style-type: none"> <li>Canadian Grains</li> <li>Canadian Oilseeds</li> </ul>	<ul style="list-style-type: none"> <li>Mini Brent</li> <li>One-Kilo Gold</li> <li>Chinese Renminbi</li> <li>Mini Low Sulphur Gas Oil</li> </ul>	<ul style="list-style-type: none"> <li>Currency Pairs</li> <li>Financial US LNG*</li> <li>Metals</li> <li>MSCI Indices</li> <li>Russell Indices</li> <li>U.S. Agriculture</li> <li>U.S. Dollar Index</li> <li>U.S. Soft Commodities</li> </ul>

ICE Futures user accesses, including Users, SuperUsers, Risk Managers and View Onlys, will be charged a monthly market data exchange fee per exchange group access, per month. For clarity, access to both ICE Futures Europe — Commodities and ICE Futures Europe — Financials will be charged a total of **\$220** per ID. A user with access to all exchange groups above will be charged a total of **\$475** per ID, per month.

**Access to multiple companies, under a single ICE ID, will incur charges at each company the ID accesses.** All charges will also attract any applicable taxes. Reports Only and Accounting users, which do not have access to real-time markets, and IDs with masked market data, are provided at no cost.

\*Denotes market data fee for this specific market is waived

## S2F

ICE FUTURES U.S. S2F NORTH AMERICAN NATURAL GAS \$625 MONTHLY MINIMUM COMMISSION	ICE FUTURES U.S. S2F NORTH AMERICAN POWER \$625 MONTHLY MINIMUM COMMISSION	ICE FUTURES U.S. S2F PHYSICAL ENVIRONMENTAL \$50 MONTHLY MINIMUM COMMISSION
Financial Gas Canadian Financial Gas Henry Hub Physical Gas	Financial Power Power	Physical Environment
ICE FUTURES EUROPE S2F GLOBAL REFINED PRODUCTS FREIGHT, LNG AND IRON ORE \$325 MONTHLY MINIMUM COMMISSION	ICE FUTURES EUROPE S2F NGL \$350 MONTHLY MINIMUM COMMISSION	ICE FUTURES EUROPE S2F PETROCHEMICAL \$0 MONTHLY MINIMUM COMMISSION
Oil Financial LNG Wet Freight Dry Freight Ferrous Metals	Financial NGL Physical NGL	Aromatics/Oxygenates Financial Aromatics Financial Monomers Financial Olefins Olefins/Polymers

**Effective April 1, 2017 — Excel Export: An additional \$25 a month is applied to each S2F market group minimum commission fee where the user has enabled S2F Excel permissions.**

- ICE S2F user accesses, including Users, SuperUsers, Risk Managers and View Onlys, will be charged a monthly minimum commission fee, per exchange group access, per month. An individual User or SuperUsers ICE S2F traded commissions will be netted against his or her individual monthly minimum commission for that S2F exchange group.
- ICE S2F user accesses, including Users, SuperUsers, Risk Managers and View Only's, with access to both ICE Futures US S2F North American Natural Gas and North American Power, a **\$1,250** monthly minimum commission for access.
- ICE S2F user accesses, including Users, Superusers, Risk Managers and View Only's, will be charged a monthly minimum commission of \$325 for access to ICE Oil, Financial LNG, Wet Freight, Dry Freight and Ferrous Metals. **Both screen-traded and block commissions will count towards the minimum commissions for this group of markets only.**

**Access to multiple companies, under a single ICE ID, will incur charges at each company the ID accesses.** All charges will also attract any applicable taxes. Reports Only and Accounting users, which do not have access to real-time markets, and IDs with masked market data, are provided at no cost. Please be reminded that ICE S2F User accesses are only available on a "1 user to 1 ID basis", multiple users are not permitted under a single FIX ID.

## NGX

NGX GAS, POWER AND CRUDE OIL \$550 PER ID/PER MONTH
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NGX Financial Power  
NGX Physical Crude  
NGX Physical Gas

NGX user accesses, including Users, SuperUsers, RiskManagers and View Only's will be charged a monthly market data exchange fee of **\$550** per ID per month.

NGX contracting parties will not be assessed this monthly fee.

**Access to multiple companies, under a single ICE ID, will incur charges at each company the ID accesses unless the company is an NGX contracting party.** All charges will also attract any applicable taxes. Reports Only and Accounting users, which do not have access to real-time markets, and IDs with masked market data, are provided at no cost.

## DIRECT ACCESS, QUOTE VENDOR AND ISV USERS

Companies with access to the iMPact data feed, regardless of access type (DAU, ISV user or QV), will be charged monthly fees as follows:

<b>Direct Connect Fee</b>	\$2,000 (monthly per unique company ID)
<b>All Exchanges: FIX OS License Fee</b>	\$500 per order server (monthly per unique company ID)
<b>All Exchanges: Price Server Access</b>	\$75 per price server (monthly per unique ID)
<b>All Exchanges: POF Access</b>	<b>Client:</b> \$500 per POF ID (fee waived for first ID) <b>Parent:</b> \$750 per Account <b>Clearer:</b> \$1,000 per Account

ICE Data Services will require that all firms with access to pricing data over iMPact price servers submit a monthly declaration quantifying all end users. Failure to report monthly access declarations will result in a delinquent reporting fee of \$5,000 after the third delinquent month and may result in ICE restricting future access to market data.

## INVOICING

Invoices are issued for all of the above services on 30 day payment terms.

ICE Administrators and/or Accounting users are responsible for downloading monthly invoices from the invoice portal, accessible via the [theice.com](http://theice.com).

If you need a login with this access, please contact [ICE User Administration](#).

## FURTHER INFORMATION

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# ICE FUTURES EUROPE

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