

Transaction report 2024

Equities - Shares & Depositary Receipts

Class of Instrument	Liquidity Band A+B					
Notification if <1 average trade per business day in the previous year	N/A					
Top five execution venues ranked in terms of trading volumes (descending order)	LEI	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Cantor Fitzgerald Europe	549300KM6VUHPKQLQX53	22,5%	98,6%	4,3%	95,7%	100,0%
Virtu (Nite) Financial Ireland LTD, London, United	549300XG5LFGN1IGYC71	21,2%	86,2%	47,1%	52,9%	100,0%
Vantage Capital Markets LLP	2138007ZHUXSGBB53N72	17,9%	88,8%	30,3%	69,7%	100,0%
Instinet Europe Limited, London, United Kingdom	213800MXAKR2LA1VBM44	15,5%	89,8%	42,9%	57,1%	100,0%
Marcard,Stein & Co AG, Hamburg, Germany	529900CK14SGH0EXOB27	6,6%	100,0%	0,0%	100,0%	100,0%

*Notice: Securities with no Liquidity Band classification are in this category listed

Class of Instrument	Liquidity Band C+D					
Notification if <1 average trade per business day in the previous year	N/A					
Top five execution venues ranked in terms of trading volumes (descending order)	LEI	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Vantage Capital Markets LLP	2138007ZHUXSGBB53N72	32,3%	89,6%	30,6%	69,4%	100,0%
Cantor Fitzgerald Europe	549300KM6VUHPKQLQX53	23,5%	100,0%	21,5%	78,5%	100,0%
Virtu (Nite) Financial Ireland LTD, London, United	549300XG5LFGN1IGYC71	20,6%	88,1%	30,5%	69,5%	100,0%
Marcard,Stein & Co AG, Hamburg, Germany	529900CK14SGH0EXOB27	11,7%	100,0%	0,0%	100,0%	100,0%
Instinet Europe Limited, London, United Kingdom	213800MXAKR2LA1VBM44	8,5%	93,1%	40,3%	59,7%	100,0%

Class of Instrument	Liquidity Band E+F					
Notification if <1 average trade per business day in the previous year	N/A					
Top five execution venues ranked in terms of trading volumes (descending order)	LEI	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Vantage Capital Markets LLP	2138007ZHUXSGBB53N72	34,9%	99,2%	3,3%	96,7%	100,0%
Cantor Fitzgerald Europe	549300KM6VUHPKQLQX53	23,0%	99,2%	3,6%	96,4%	100,0%
Virtu (Nite) Financial Ireland LTD, London, United Kingdom	549300XG5LFGN1IGYC71	17,1%	96,9%	7,1%	92,9%	100,0%
Marcard,Stein & Co AG, Hamburg, Germany	529900CK14SGH0EXOB27	16,0%	100,0%	1,7%	98,3%	100,0%
Instinet Europe Limited, London, United Kingdom	213800MXAKR2LA1VBM44	3,7%	98,8%	7,1%	92,9%	100,0%

Debt Instruments / Bonds

Class of Instrument	Debt instruments <397 days to maturity					
Notification if <1 average trade per business day in the previous year	N/A					
Top five execution venues ranked in terms of trading volumes (descending order)	LEI	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Citigroup Global Markets LTD, London, United Kingdom	XKZZ2JZF41MRHTR1V493	41,4%	100,0%	9,0%	91,0%	100,0%
Bmo Capital Markets LTD, London, United Kingdom	5493000YPN33HF74SN02	25,7%	100,0%	18,5%	81,5%	100,0%
Marcard,Stein & Co AG, Hamburg, Germany	529900CK14SGH0EXOB27	13,6%	100,0%	0,0%	100,0%	100,0%
Tradition Luxembourg S.A	222100WO1IJLM4F4BO51	5,2%	90,9%	90,9%	9,1%	100,0%
J.P. Morgan Securities PLC	K6Q0W1PS1L1O4IQL9C32	5,0%	100,0%	6,7%	93,3%	100,0%

Class of Instrument	Debt instruments > 397 days to maturity					
Notification if <1 average trade per business day in the previous year	N/A					
Top five execution venues ranked in terms of trading volumes (descending order)	LEI	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Citigroup Global Markets LTD, London, United Kingdom	XKZZ2JZF41MRHTR1V493	28,0%	97,9%	37,5%	62,5%	100,0%
Marcard, Stein & Co AG, Hamburg, Germany	529900CK14SGH0EXOB27	14,6%	100,0%	2,6%	97,4%	100,0%
Bmo Capital Markets LTD, London, United Kingdom	5493000YPN33HF74SN02	12,2%	95,5%	40,9%	59,1%	100,0%
Market Axess Capital Limited, London	529900CTXON8S5AOCB70	7,9%	93,8%	32,3%	67,7%	100,0%
Jane Street Financial, London, United Kingdom	549300ZHEHX8M31RP142	7,6%	100,0%	9,9%	90,1%	100,0%

Interest Rate Derivates

Class of Instrument	Interest rate derivatives / Futures and options					
Notification if <1 average trade per business day in the previous year	N/A					
Top five execution venues ranked in terms of trading volumes (descending order)	LEI	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
-	-	-	-	-	-	-

Credit Derivates

Class of Instrument	Credit Derivates					
Notification if <1 average trade per business day in the previous year	N/A					
Top five execution venues ranked in terms of trading volumes (descending order)	LEI	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
-	-	-	-	-	-	-

Currency Derivates

Class of Instrument	Currency Derivates / Futures and Options					
Notification if <1 average trade per business day in the previous year	N/A					
Top five execution venues ranked in terms of trading volumes (descending order)	LEI	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
J.P. Morgan Securities PLC	K6Q0W1PS1L1O4IQL9C32	100,0%	100,0%	0,0%	100,0%	100,0%

Class of Instrument	Currency Derivates / Swaps, Forwards and other Derivates					
Notification if <1 average trade per business day in the previous year	N/A					
Top five execution venues ranked in terms of trading volumes (descending order)	LEI	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
M.M.Warburg & Co Kga, Hamburg, Germany	MZI1VDH2BQLFZGLQDO60	43,8%	100,0%	0,0%	100,0%	100,0%
Commerzbank AG, Frankfurt, Germany	851WYG NLUQLFZBSYGB56	26,9%	100,0%	0,0%	100,0%	100,0%
Citibank Uk Limited London Citigb2L	549300U8H3KN0K301B23	29,0%	100,0%	0,0%	100,0%	100,0%
Joh. Berenberg, Gossler Hamburg Begodehh & Co	529900UC2OD7II24Z667	0,4%	100,0%	0,0%	100,0%	100,0%
-	-	-	-	-	-	-

Credit Derivates and Equity Derivates

Class of Instrument	Structured Finance Instruments					
Notification if <1 average trade per business day in the previous year	N/A					
Top five execution venues ranked in terms of trading volumes (descending order)	LEI	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
-	-	-	-	-	-	-

Class of Instrument	Equity Derivates / Futures and Options					
Notification if <1 average trade per business day in the previous year	N/A					
Top five execution venues ranked in terms of trading volumes (descending order)	LEI	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
J.P. Morgan Securities PLC	K6Q0W1PS1L1O4IQL9C32	65,2%	91,4%	25,8%	74,2%	100,0%
M.M.Warburg & Co Kga, Hamburg, Germany	MZI1VDH2BQLFZGLQDO60	34,8%	97,2%	8,9%	91,1%	100,0%

Securitized Derivates

Class of Instrument	Securitized Derivates					
Notification if <1 average trade per business day in the previous year	N/A					
Top five execution venues ranked in terms of trading volumes (descending order)	LEI	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
-	-	-	-	-	-	-

Class of Instrument	Warrants and Certificates					
Notification if <1 average trade per business day in the previous year	N/A					
Top five execution venues ranked in terms of trading volumes (descending order)	LEI	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
M.M.Warburg & Co Kga, Hamburg, Germany	MZI1VDH2BQLFZGLQDO60	87,0%	97,6%	47,8%	52,2%	100,0%
Marcard,Stein & Co AG, Hamburg, Germany	529900CK14SGH0EXOB27	11,4%	100,0%	0,0%	100,0%	100,0%
Virtu (Nite) Financial Ireland LTD, London, United	549300XG5LFGN1IGYC71	0,8%	100,0%	0,0%	100,0%	100,0%
Cantor Fitzgerald Europe	549300KM6VUHPKQLQX53	0,7%	100,0%	0,0%	100,0%	100,0%
Instinet Europe Limited, London, United Kingdom	213800MXAKR2LA1VBM44	0,0%	100,0%	0,0%	100,0%	100,0%

Commodity Derivates

Class of Instrument	Commodity derivatives / Futures and Options					
Notification if <1 average trade per business day in the previous year	N/A					
Top five execution venues ranked in terms of trading volumes (descending order)	LEI	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
-	-	-	-	-	-	-

Class of Instrument	Commodity Derivates / Others					
Notification if <1 average trade per business day in the previous year	N/A					
Top five execution venues ranked in terms of trading volumes (descending order)	LEI	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
-	-	-	-	-	-	-

Contracted for differences and Exchange Traded Products (Funds, ETF)

Class of Instrument	Contract for Differences					
Notification if <1 average trade per business day in the previous year	N/A					
Top five execution venues ranked in terms of trading volumes (descending order)	LEI	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
-	-	-	-	-	-	-

Class of Instrument	Exchange traded products (Funds and ETF)					
Notification if <1 average trade per business day in the previous year	N/A					
Top five execution venues ranked in terms of trading volumes (descending order)	LEI	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Citibank Europe PLC Bertrange	549300U8H3KN0K301B23	78,6%	99,9%	0,1%	99,9%	100,0%
Jane Street Financial, London, United Kingdom	549300ZHEHX8M31RP142	6,1%	100,0%	3,0%	97,0%	100,0%
Flow Traders B.V., Amsterdam, Netherlands	549300CLJ9XDH12XV51	5,0%	99,5%	3,1%	96,9%	100,0%
International Fund Services And Asset Manager	549300QX1Z31SD5RIK58	4,4%	98,3%	0,0%	100,0%	100,0%
Optiver V.O.F., Amsterdam, Netherlands	7245009KRY SAYB2QCC29	1,5%	100,0%	1,2%	98,8%	100,0%

Emission Certificates

Class of Instrument	Emission Certificates					
Notification if <1 average trade per business day in the previous year	N/A					
Top five execution venues ranked in terms of trading volumes (descending order)	LEI	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
-	-	-	-	-	-	-