Goldman Sachs Bank Europe SE: Best Execution Reports under RTS 28

This report has been prepared by Goldman Sachs Bank Europe SE ("Goldman Sachs") for the period ending 31 December 2018 (the "Reporting Period") for the purposes of meeting Goldman Sachs' regulatory obligations under Article 65(6) of Commission Delegated Regulation 2017/565 and Article 27(6) of Directive 2014/65/EU ("MiFID II") which requires Goldman Sachs to annually publish (i) the top five top five venues where it executed clients orders; and (ii) the top five firms to whom it transmitted or placed client orders for execution, in respect of each class of financial instruments noted below. This report also provides information on Goldman Sachs' assessment of the quality of execution it obtained from these execution venues and firms (based on its internal monitoring), for each class of financial instruments. Goldman Sachs does not guarantee the correctness or completeness of the information in this report and shall not be responsible for or have any liability whatsoever for any loss or damage caused by errors, inaccuracies or omissions in connection with use or reliance on this information. Goldman Sachs reserve the right to amend, update or re-state the information contained in this report at any time.

Please note that this document is not marketing or promotional material, and has been prepared and published on Goldman Sachs' website solely to ensure compliance with MiFID II disclosure requirements.



Equities Shares & Depositary Receipts

Reporting Entity: GSBE					
Top Five Venue Report					
Type of Client: Retail Client					
Reporting Entity: GSBE					
Class of Instrument		eipts - Tick size liquidity bands 1 and 2	2 (from 0 to 79 trades per day)		
Notification if <1 average trade per business day in the previous year	N/A		1		
Top five execution venues ranked in terms of trading volumes (descending order)	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
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
Top Five Broker Report Type of Client: Retail Client Reporting Entity: GSBE					
Class of Instrument	Equition Sharos & Dopositary Poo	eipts - Tick size liquidity bands 1 and	2 (from 0 to 70 trades per day)		
Notification if <1 average trade per business day in the previous year	N				
Top five execution venues ranked in terms of trading volumes (descending order)	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
FOR8UP27PHTHYVLBNG30 - GOLDMAN SACHS & CO. LLC	77.7	4 64.34	4 8.00	92.00	0
S81F8KH474EY7PUWI149 - (GS) GOLDMAN SACHS BANK AG ZURICH	18.8	9 27.15	5 8.00	92.00	0
W22LROWP2IHZNBB6K528 - (GS) GOLDMAN SACHS INTERNATIONAL	3.3	7 8.51	1 8.00	92.00	C



Equities Shares & Depositary Receipts

Reporting Entity: GSBE					
Top Five Venue Report					
Type of Client: Retail Client					
Reporting Entity: GSBE					
Class of Instrument		eipts - Tick size liquidity bands 3 and	4 (from 80 to 1999 trades per day)		
Notification if <1 average trade per business day in the previous year	N/A	1			
Top five execution venues ranked in terms of trading volumes (descending order)	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
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
Top Five Broker Report Type of Client: Retail Client Reporting Entity: GSBE					
Class of Instrument	Equities - Shares & Depositary Rec	eipts - Tick size liquidity bands 3 and	1 (from 80 to 1999 trades per day)		
Notification if <1 average trade per business day in the previous year	N				
Top five execution venues ranked in terms of trading volumes (descending order)	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
W22LROWP2IHZNBB6K528 - (GS) GOLDMAN SACHS INTERNATIONAL	47.3	5 45.35	5 8.00	92.00	0.0
FOR8UP27PHTHYVLBNG30 - GOLDMAN SACHS & CO. LLC	45.7	5 40.14	4 8.00	92.00	0.0
S81F8KH474EY7PUWI149 - (GS) GOLDMAN SACHS BANK AG ZURICH	6.8	9 14.53	1 8.00	92.00	0.0



Equities Shares & Depositary Receipts

Type of Client: Retail Client					
Reporting Entity: GSBE					
Class of Instrument		eipts - Tick size liquidity bands 5 and 6	6 (from 2000 trades per day)		
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)	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
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A Fop Five Broker Report	N/A	N/A	N/A	N/A	N/A
Top Five Broker Report Type of Client: Retail Client Reporting Entity: GSBE				N/A	N/A
Top Five Broker Report Type of Client: Retail Client Reporting Entity: GSBE Class of Instrument		N/A Peipts - Tick size liquidity bands 5 and 6		N/A	N/A
Top Five Broker Report Type of Client: Retail Client Reporting Entity: GSBE Class of Instrument Notification if <1 average trade per business day in the previous year	Equities - Shares & Depositary Rece N	eipts - Tick size liquidity bands 5 and 6	5 (from 2000 trades per day)		
Top Five Broker Report Type of Client: Retail Client Reporting Entity: GSBE Class of Instrument Notification if <1 average trade per business day in the previous year				N/A Percentage of aggressive orders	Percentage of directed orders
Top Five Broker Report Type of Client: Retail Client Reporting Entity: GSBE Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order)	Equities - Shares & Depositary Rece N Proportion of volume traded as a	eipts - Tick size liquidity bands 5 and 6 Proportion of orders executed as percentage of total in that class	5 (from 2000 trades per day) Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Top Five Broker Report Type of Client: Retail Client Reporting Entity: GSBE Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) N22LROWP2IHZNBB6K528 - (GS) GOLDMAN SACHS INTERNATIONAL	Equities - Shares & Depositary Rece N Proportion of volume traded as a percentage of total in that class	eipts - Tick size liquidity bands 5 and 6 Proportion of orders executed as percentage of total in that class	5 (from 2000 trades per day) Percentage of passive orders 8 8.00	Percentage of aggressive orders 92.00	Percentage of directed orders
Top Five Broker Report Type of Client: Retail Client Reporting Entity: GSBE Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) W22LROWP2IHZNBB6K528 - (GS) GOLDMAN SACHS INTERNATIONAL 581F8KH474EY7PUWI149 - (GS) GOLDMAN SACHS BANK AG ZURICH	Equities - Shares & Depositary Rece N Proportion of volume traded as a percentage of total in that class 86.94	Proportion of orders executed as percentage of total in that class 1 75.85	5 (from 2000 trades per day) Percentage of passive orders 8.00 8.00	Percentage of aggressive orders 92.00 92.00	Percentage of directed orders
Top Five Broker Report Type of Client: Retail Client Reporting Entity: GSBE Class of Instrument	Equities - Shares & Depositary Rece N Proportion of volume traded as a percentage of total in that class 86.94	Proportion of orders executed as percentage of total in that class 1 75.85	5 (from 2000 trades per day) Percentage of passive orders 8.00 8.00	Percentage of aggressive orders 92.00 92.00	Percentage of directed orders

1. Topic 1: an explanation of the relative importance the firm gave to the execution factors of price, costs, speed, likelihood of execution or any other consideration including qualitative factors when assessing the quality of execution:

This qualitative commentary covers the activity of the Private Wealth Management Division which is the only part of Goldman Sachs Bank Europe SE ("GS") providing execution services to retail clients. For further information on the Private Wealth Management Division's best execution arrangements please refer to the relevant summary which is available at: http://www.goldmansachs.com/disclosures/mifid/.

Where GS has determined it had a best execution obligation in respect of an order, GS took into account the following criteria for determining the relative importance of the execution factors in the circumstances:

the characteristics of the client including the regulatory categorisation of the client;

the characteristics of the relevant order;

• the characteristics of financial instruments that are the subject of the relevant order; and

the characteristics of the execution venue to which that relevant order can be directed.

Subject to any specific instructions, taking into account the criteria above, GS generally gave the highest priority to total consideration for retail clients. The remaining execution factors were generally given equal ranking.

GS prioritised one or more of the other execution factors in the following scenarios: (i) there was insufficient immediately available liquidity on the relevant execution venues to execute the relevant order in full; or (ii) where a client instructed GS to work a relevant order over a period of time or by reference to a benchmark calculated over a period of time (such as VWAP); or (iii) GS determined that there were other circumstances such that obtaining the best immediately available price was not the best possible result for the client. In these cases, GS determined the relative priority of each executed nanually, and by order type (e.g. iceberg, VWAP), where the order was executed using an algorithm.

GS used brokers, including affiliate brokers, to access equities markets for which it does not have a direct membership itself.

2. Topic 2: a description of any close links, conflicts of interests, and common ownerships with respect to any execution venues used to execute orders;

The Private Wealth Management Division executes shares and depository receipts via the Securities Division of Goldman Sachs International (GSI), and where appropriate, other GS affiliates. The Private Wealth Management Division has determined that it can consistently achieve the best results for its clients using a single execution venue.

For further details on the execution venues used by the Private Wealth Management Division and its conflicts of interest policy, please refer to the Private Wealth Management Division's best execution summary which is available at: http://www.goldmansachs.com/disclosures/mifid/.

Goldman Sachs and persons connected with Goldman Sachs provide diversified financial services to a broad range of clients and counterparties and circumstances may arise in which Goldman Sachs may have a conflict of interest.

GS is a member of the Goldman Sachs group of companies. The Securities Division of GS may execute transactions in certain asset classes with or through affiliated entities. Execution quality received from affiliated entities is subject to the same monitoring and assessment applied to third party entities and execution venues utilised by GS for execution of client orders.

GS has close links and/or common ownership with respect to the following entities:

SIGMA X MTF – GSI is under common ownership with Goldman Sachs International Bank which operates SIGMA X MTF, a multilateral trading facility for trading in European equity and equity-like instruments. SIGMA X MTF is operated on an independent and segregated basis to other Goldman Sachs businesses. GSI is itself one of several trading participants on SIGMA X MTF. For further information on SIGMA X MTF please visit the SIGMA X MTF website at http://gset.gs.com/sigmaxmtf/.

In addition, Goldman Sachs Group entities may have (i) minor, non-controlling ownership stakes in companies which operate or own execution venues and/or; (ii) be founding consortia members of execution venues for which it has revenue share arrangements, which Goldman Sachs may use to execute orders on behalf of clients in certain financial instruments, including:

- BIDS Holdings L.P.
- CHX Holdings, Inc.
- Chi-X Global Holdings LLC
- SBI Japannext Co., Ltd.
- National Stock Exchange of India Limited
- Turquoise Global Holdings Limited

Goldman Sachs' decision to route orders to a particular venue for execution is determined by whether execution obligations and is not influenced by any such ownership or revenue share arrangements.

3. Topic 3: a description of any specific arrangements with any execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received;

Some execution venues may offer differing fee plans to trading members depending on the volume and nature/type of a trading activity on the venue as well as fee discounts depending on average volume of trading undertaken. Such arrangements apply equally to all trading members who satisfy the relevant criteria under the execution venue's rules. Information on such arrangements is publically available on the relevant execution venue's website. Goldman Sachs' decision to route orders to a particular venue or execution is determined by whether execution on such venue allows GS to satisfy its best execution obligations and is not influenced by any such fee structure or volume discount.

4. Topic 4: an explanation of the factors that led to a change in the list of execution venues listed in the firm's execution policy, if such a change occurred;

Goldman Sachs maintains internal procedures for the selection of Brokers, Trading Venues and other Execution Venues, both at the stage of on-boarding and throughout the relationship, in order to satisfy ourselves that those selections enable us to obtain best execution on a consistent basis. These procedures include undertaking due diligence and regular assessments of execution quality.

In response to evolving market structure and client demand GS frequently evaluates existing and new execution venues. Goldman Sachs has added a variety of new execution venues during the reporting period, more specifically systematic internalisers and MTFs offering periodic auction and conditional order type functionality, including:

Systematic Internalisers: Jane St, Sun, Tower, Virtu, XTX, Hudson, Citadel Europe MTFs (periodic and conditional order books (as applicable)): Acquis, First North Auction on Demand, Nordic Growth Market, ITG Posit, Liquidnet Primary Markets: Tadawul (Saudi Stock Exchange)

As part of our periodic evaluation of execution venues Goldman Sachs reviews a variety of execution performance metrics, including addressable liquidity, fill rate, mark-outs and latency.

5. Topic 5: an explanation of how order execution differs according to client categorisation, where the firm treats categories of clients differently and where it may affect the order execution arrangements;

The Private Wealth Management Division provides order execution for retail and professional clients.

A client's regulatory categorisation is an important factor both in the assessment of whether the client is relying on GS to deliver best execution and in providing best execution. The starting presumption is that retail clients do legitimately rely on GS to protect their interests in relation to pricing and other elements of the transaction that may be affected by the choice made by GS in executing the relevant order (i.e. GS owes a duty of best execution to retail clients) and professional clients do not legitimately rely on GS to protect their interests; however, these presumptions may be revised depending on the application of the four-fold test for determining legitimate reliance to the particular circumstances of GS' interaction with the client and how the market operates for the

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relevant product.

Subject to any specific instructions, GS will generally give the highest priority to:net price for professional clients; andtotal consideration for retail clients.

6. Topic 6: an explanation of whether other criteria were given precedence over immediate price and cost when executing retail client orders and how these other criteria were instrumental in delivering the best possible result in terms of the total consideration to the client;

Subject to any specific instructions, GS generally did not give precedence over immediate price and cost when executing retail client orders.

If GS receives an order from a retail client that includes a specific instruction or specific instructions in relation to the handling and execution of the entire order or a particular aspect or aspects of an order (including selecting a particular execution venue, executing at a particular price or time or through the use of a particular strategy) then, subject to GS' legal and regulatory obligations, GS will execute the retail client's order in accordance with that specific instruction. Where the specific instruction covers only a portion of an order (including selecting a particular strategy) then, subject to GS' legal and regulatory obligations, GS will execute the retail client's order in accordance with that specific instruction. Where the specific instruction covers only a portion of an order (for example, as to the choice of execution venue), and GS has discretion over the execution of other elements of the order, then GS will continue to be subject to the best execution obligation in respect of the elements of the order that are not covered by the client's specific instruction.

7. Topic 7: an explanation of how the investment firm has used any data or tools relating to the quality of execution, including any data published under RTS 27;

GS has in place post execution supervisory monitoring procedures which use market data, where it is available, to assess client transactions against relevant market prices and benchmarks. For products with no observable external market data other criteria are used to benchmark client transactions for monitoring purposes. This monitoring is undertaken on a manual basis in accordance with internal monitoring policies and procedures. As part of its overall best execution monitoring framework and on-going assessment of execution venues utilised, GS may also take account of information published under RTS 27 by those execution venues (if applicable) alongside data sources used as part of its systematic best execution monitoring arrangements.

8. Topic 8: where applicable, an explanation of how the investment firm has used output of a consolidated tape provider established under Article 65 of Directive 2014/65/EU.



Debt instruments: (i) Bonds

Top Five Venue Report Type of Client: Retail Client Reporting Entity: GSBE					
Class of Instrument	Debt instruments: (i) Bonds				
Notification if <1 average trade per business day in the previous year	N/A				
Fop five execution venues ranked in terms of trading volumes (descending order)	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
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
Top Five Broker Report Type of Client: Retail Client Reporting Entity: GSBE					
Class of Instrument	Debt instruments: (i) Bonds				
Notification if <1 average trade per business day in the previous year	N		r		
Top five execution venues ranked in terms of trading volumes (descending order)	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
	57.49	60.32	N/A	N/A	N/A
581F8KH474EY7PUWI149 - (GS) GOLDMAN SACHS BANK AG ZURICH					
	39.45	34.84	N/A	N/A	N/A
S81F8KH474EY7PUWI149 - (GS) GOLDMAN SACHS BANK AG ZURICH N22LROWP2IHZNBB6K528 - (GS) GOLDMAN SACHS INTERNATIONAL				N/A N/A	N/A N/A

1. Topic 1: an explanation of the relative importance the firm gave to the execution factors of price, costs, speed, likelihood of execution or any other consideration including qualitative factors when assessing the quality of execution:

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Where GS determined it had a best execution obligation in respect of an order, GS took into account the following criteria for determining the relative importance of the execution factors in the circumstances:

• the characteristics of the client including the regulatory categorisation of the client;

• the characteristics of the relevant order;

• the characteristics of financial instruments that are the subject of the relevant order; and

• the characteristics of the execution venue to which that relevant order can be directed.

Subject to any specific instructions, taking into account the criteria above, GS generally gave the highest priority to total consideration for retail clients.

GS prioritised one or more of the other execution factors in the following scenarios: (i) there was insufficient immediately available liquidity on the relevant execution venues to execute the relevant order in full; or (ii) a client instructed us to work a relevant order over a period of time; or (iii) GS determined that there were other circumstances such that obtaining the best immediately available price was not the best possible result for the client. In these cases, GS determined the relative priority of each execution factor on an order-by-order basis, where the order was executed manually, and by order type where the order was executed using an algorithm.

2. Topic 2: a description of any close links, conflicts of interests, and common ownerships with respect to any execution venues used to execute orders;

The Private Wealth Management Division utilises different execution venues to execute client orders. Private Wealth Management operates an "open architecture" model for executing all fixed income trades unless the open architecture platform does not support a certain product or an order is subject to specific instructions. Where this is the case, Private Wealth Management can trade through the Securities Division. GS is a member of the Goldman Sachs group of companies. Execution quality received from affiliated entities is subject to the same monitoring and assessment applied to third party entities and execution venues utilised by GS for execution of client orders.

For further details on the execution venues used by the Private Wealth Management Division and its conflicts of interest policy, please refer to the Private Wealth Management Division's best execution summary which is available at: http://www.goldmansachs.com/disclosures/mifid/.

Goldman Sachs and persons connected with Goldman Sachs provide diversified financial services to a broad range of clients and counterparties and circumstances may arise in which Goldman Sachs may have a conflict of interest.

In addition, Goldman Sachs Group entities may have (i) minor, non-controlling ownership stakes in companies which operate or own execution venues and/or; (ii) be founding consortia members of execution venues for which it has revenue share arrangements, which Goldman Sachs may use to execute orders on behalf of clients in certain financial instruments, including:

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Goldman Sachs' decision to route orders to a particular venue for execution is determined by whether execution on such venues allows us to satisfy our best execution obligations and is not influenced by any such ownership or revenue share arrangements.

3. Topic 3: a description of any specific arrangements with any execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received;

Not applicable.

4. Topic 4: an explanation of the factors that led to a change in the list of execution venues listed in the firm's execution policy, if such a change occurred;

There has been no change to the execution venues listed in GS' execution policy for the reporting period.

5. Topic 5: an explanation of how order execution differs according to client categorisation, where the firm treats categories of clients differently and where it may affect the order execution arrangements;

The Private Wealth Management Division executes orders for retail and professional clients.

The Private Wealth Management Division generally gives the highest priority to total consideration for both retail and professional clients. Order execution arrangements will differ to the extent of a client's specific instructions.

6. Topic 6: an explanation of whether other criteria were given precedence over immediate price and cost when executing retail client orders and how these other criteria were instrumental in delivering the best possible result in terms of the total consideration to the client;

Subject to any specific instructions, GS generally did not give precedence over immediate price and cost when executing retail client orders.

If GS receives an order from a retail client that includes a specific instruction or specific instructions in relation to the handling and execution of the entire order or a particular aspect or aspects of an order (including selecting a particular execution venue, executing at a particular price or time or through the use of a particular strategy) then, subject to GS' legal and regulatory obligations, GS will execute the retail client's order in accordance with that specific instruction. Where the specific instruction covers only a portion of a particular or der (for example, as to the choice of execution venue), and GS has discretion over the execution of other elements of the order, then GS will continue to be subject to the best execution obligation in respect of the elements of the order that are not covered by the client's specific instruction.

7. Topic 7: an explanation of how the investment firm has used any data or tools relating to the quality of execution, including any data published under RTS 27;

GS has in place post execution supervisory monitoring procedures which use market data, where it is available, to assess client transactions against relevant market prices and benchmarks. For products with no observable external market data other criteria are used to benchmark client transactions for monitoring purposes. This monitoring is undertaken on a manual basis in accordance with internal monitoring policies and procedures. As part of its overall best execution monitoring framework and on-going assessment of execution venues utilised, GS may also take account of information published under RTS 27 by those execution venues (if applicable) alongside data sources used as part of its systematic best execution monitoring arrangements.

8. Topic 8: where applicable, an explanation of how the investment firm has used output of a consolidated tape provider established under Article 65 of Directive 2014/65/EU.





Debt instruments: (ii) Money markets instruments

Reporting Entity: GSBE					
op Five Venue Report					
ype of Client: Retail Client					
Reporting Entity: GSBE					
Class of Instrument	Debt instruments: (ii) Money mark	ets instruments			
Notification if <1 average trade per business day in the previous year	N/A				
Γοp five execution venues ranked in terms of trading volumes (descending order)	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
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
Гор Five Broker Report Гуре of Client: Retail Client Reporting Entity: GSBE					
Class of Instrument	Debt instruments: (ii) Money mark	ets instruments			
Notification if <1 average trade per business day in the previous year	N				
Top five execution venues ranked in terms of trading volumes (descending order)	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
W22LROWP2IHZNBB6K528 - (GS) GOLDMAN SACHS INTERNATIONAL	58.4	1 58.70	N/A	N/A	N/A
81F8KH474EY7PUWI149 - (GS) GOLDMAN SACHS BANK AG ZURICH	34.49	30.43	N/A	N/A	N/A
OR8UP27PHTHYVLBNG30 - GOLDMAN SACHS & CO. LLC	7.10	10.87	N/A	N/A	N/A

1. Topic 1: an explanation of the relative importance the firm gave to the execution factors of price, costs, speed, likelihood of execution or any other consideration including qualitative factors when assessing the quality of execution:

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Where GS determined it had a best execution obligation in respect of an order, GS took into account the following criteria for determining the relative importance of the execution factors in the circumstances:

• the characteristics of the client including the regulatory categorisation of the client;

the characteristics of the relevant order;

• the characteristics of financial instruments that are the subject of the relevant order; and

• the characteristics of the execution venue to which that relevant order can be directed.

Subject to any specific instructions, taking into account the criteria above, GS generally gave the highest priority to total consideration for retail clients.

GS prioritised one or more of the other execution factors in the following scenarios: (i) there was insufficient immediately available liquidity on the relevant execution venues to execute the relevant order in full; or (ii) a client instructed us to work a relevant order over a period of time; or (iii) GS determined that there were other circumstances such that obtaining the best immediately available price may not be the best possible result for the client. In these cases, GS determine the relative priority of each execution factor on an order-by-order basis, where the order was executed manually, and by order type where the order was executed using an algorithm.

2. Topic 2: a description of any close links, conflicts of interests, and common ownerships with respect to any execution venues used to execute orders;

The Private Wealth Management Division utilises different execution venues to execute client orders. Private Wealth Management operates an "open architecture" model for executing all fixed income trades unless the open architecture platform does not support a certain product or an order is subject to specific instructions. Where this is the case, Private Wealth Management can trade through the Securities Division. GS is a member of the Goldman Sachs group of companies. Execution quality received from affiliated entities is subject to the same monitoring and assessment applied to third party entities and execution venues utilised by GS for execution of client orders.

For further details on the execution venues used by the Private Wealth Management Division and its conflicts of interest policy, please refer to the Private Wealth Management Division's best execution summary which is available at: http://www.goldmansachs.com/disclosures/mifid/.

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In addition, Goldman Sachs Group entities may have (i) minor, non-controlling ownership stakes in companies which operate or own execution venues and/or; (ii) be founding consortia members of execution venues for which it has revenue share arrangements, which Goldman Sachs may use to execute orders on behalf of clients in certain financial instruments, including:

Bloomberg

Market Axess

Goldman Sachs' decision to route orders to a particular venue for execution is determined by whether execution on such venues allows us to satisfy our best execution obligations and is not influenced by any such ownership or revenue share arrangements.

3. Topic 3: a description of any specific arrangements with any execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received;

Not applicable.

4. Topic 4: an explanation of the factors that led to a change in the list of execution venues listed in the firm's execution policy, if such a change occurred;

There has been no change to the execution venues listed in GS' execution policy for the reporting period.

5. Topic 5: an explanation of how order execution differs according to client categorisation, where the firm treats categories of clients differently and where it may affect the order execution arrangements;

The Private Wealth Management Division executes orders for retail and professional clients.

The Private Wealth Management Division generally gives the highest priority to total consideration for both retail and professional clients. Order execution arrangements will differ to the extent of a client's specific instructions.

6. Topic 6: an explanation of whether other criteria were given precedence over immediate price and cost when executing retail client orders and how these other criteria were instrumental in delivering the best possible result in terms of the total consideration to the client;

Subject to any specific instructions, GS generally did not give precedence to other criteria over immediate price and cost when executing retail client orders.

If GS receives an order from a retail client that includes a specific instruction or specific instructions in relation to the handling and execution of the entire order or a particular aspect or aspects of an order (including selecting a particular execution venue, executing at a particular price or time or through the use of a particular strategy) then, subject to GS' legal and regulatory obligations, GS will execute the retail client's order in accordance with that specific instruction. Where the specific instruction covers only a portion of a particular or der (for example, as to the choice of execution venue), and GS has discretion over the execution of other elements of the order, then GS will continue to be subject to the best execution obligation in respect of the elements of the order that are not covered by the client's specific instruction.

7. Topic 7: an explanation of how the investment firm has used any data or tools relating to the quality of execution, including any data published under RTS 27;

GS has in place post execution supervisory monitoring procedures which use market data, where it is available, to assess client transactions against relevant market prices and benchmarks. For products with no observable external market data other criteria are used to benchmark client transactions for monitoring purposes. This monitoring is undertaken on a manual basis in accordance with internal monitoring policies and procedures. As part of its overall best execution monitoring framework and on-going assessment of execution venues utilised, GS may also take account of information published under RTS 27 by those execution venues (if applicable) alongside data sources used as part of its systematic best execution monitoring arrangements.

8. Topic 8: where applicable, an explanation of how the investment firm has used output of a consolidated tape provider established under Article 65 of Directive 2014/65/EU.





Interest rates derivatives: (i) Futures and options admitted to trading on a trading venue

Reporting Entity: GSBE					
op Five Venue Report					
ype of Client: Retail Client eporting Entity: GSBE					
Class of Instrument	Interest rates derivatives: (i) Future	es and options admitted to trading or	a trading venue*		
Notification if <1 average trade per business day in the previous year	N/A				1
op five execution venues ranked in terms of trading volumes (descending order)	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
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
Гор Five Broker Report Гуре of Client: Retail Client Reporting Entity: GSBE					
Class of Instrument	Interest rates derivatives: (i) Future	es and options admitted to trading or	a trading venue		
Notification if <1 average trade per business day in the previous year	N/A				
Fop five execution venues ranked in terms of trading volumes (descending order)	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
N/A	N/A	N/A	N/A	N/A	N/A
N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
N/A	N/A	N/A	N/A	N/A	N/A







Interest rates derivatives: (ii) Swaps, forwards, and other interest rates derivatives

op Five Venue Report					
pe of Client: Retail Client					
eporting Entity: GSBE					
lass of Instrument	Interest rates derivatives: (ii) Swap	s, forwards, and other Interest rate o	lerivatives		
otification if <1 average trade per business day in the previous year	N/A	-,			
op five execution venues ranked in terms of trading volumes (descending order)	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
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
op Five Broker Report	N/A	N/A	N/A	N/A	N/A
op Five Broker Report ype of Client: Retail Client	N/A	N/A	N/A	N/A	N/A
op Five Broker Report ype of Client: Retail Client	N/A	N/A	N/A	N/A	N/A
op Five Broker Report ype of Client: Retail Client eporting Entity: GSBE				N/A	N/A
op Five Broker Report ype of Client: Retail Client Reporting Entity: GSBE	Interest rates derivatives: (ii) Swap	N/A s, forwards, and other Interest rate o		N/A	N/A
op Five Broker Report ype of Client: Retail Client eporting Entity: GSBE				N/A Percentage of aggressive orders	N/A Percentage of directed orders
op Five Broker Report ype of Client: Retail Client eporting Entity: GSBE ass of Instrument otification if <1 average trade per business day in the previous year	Interest rates derivatives: (ii) Swap N/A Proportion of volume traded as a	s, forwards, and other Interest rate of Proportion of orders executed as	lerivatives		
op Five Broker Report /pe of Client: Retail Client eporting Entity: GSBE ass of Instrument otification if <1 average trade per business day in the previous year op five execution venues ranked in terms of trading volumes (descending order)	Interest rates derivatives: (ii) Swap N/A Proportion of volume traded as a percentage of total in that class	s, forwards, and other Interest rate of Proportion of orders executed as percentage of total in that class	lerivatives Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
op Five Broker Report ype of Client: Retail Client eporting Entity: GSBE ass of Instrument otification if <1 average trade per business day in the previous year op five execution venues ranked in terms of trading volumes (descending order) N/A	Interest rates derivatives: (ii) Swap N/A Proportion of volume traded as a percentage of total in that class N/A	s, forwards, and other Interest rate of Proportion of orders executed as percentage of total in that class N/A	Percentage of passive orders N/A	Percentage of aggressive orders N/A	Percentage of directed orders
pp Five Broker Report ype of Client: Retail Client eporting Entity: GSBE ass of Instrument otification if <1 average trade per business day in the previous year op five execution venues ranked in terms of trading volumes (descending order) N/A N/A	Interest rates derivatives: (ii) Swap N/A Proportion of volume traded as a percentage of total in that class N/A N/A	s, forwards, and other Interest rate of Proportion of orders executed as percentage of total in that class N/A N/A	Percentage of passive orders N/A N/A	Percentage of aggressive orders N/A N/A N/A	Percentage of directed orders N/A N/A



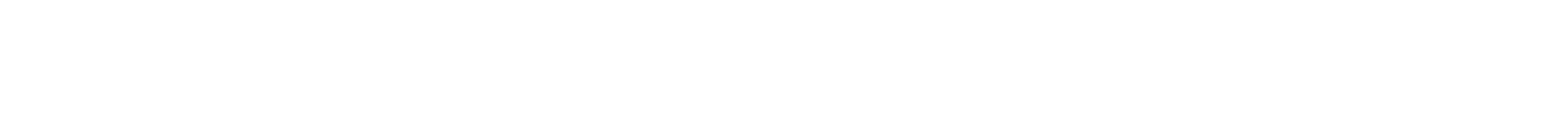


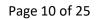


Credit derivatives (i) Futures and options admitted to trading on a trading venue

Reporting Entity: GSBE					
Top Five Venue Report					
Гуре of Client: Retail Client					
Reporting Entity: GSBE					
Class of Instrument	Credit derivatives (i) Futures and or	otions admitted to trading on a tradir	ng venue		
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)	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
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
Top Five Broker Report Type of Client: Retail Client Reporting Entity: GSBE					
Class of Instrument	Credit derivatives (i) Eutures and er	otions admitted to trading on a tradir	22 1/22/10		
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)	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
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A
N/A	,				







Credit derivatives: (ii) Other credit derivatives

Reporting Entity: GSBE Top Five Venue Report					
ype of Client: Retail Client Peporting Entity: GSBE					
Class of Instrument	Credit derivatives: (ii) Other credit	derivatives			
Notification if <1 average trade per business day in the previous year	N/A				
op five execution venues ranked in terms of trading volumes (descending order)	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
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
Top Five Broker Report Type of Client: Retail Client Reporting Entity: GSBE					
Class of Instrument	Credit derivatives: (ii) Other credit	derivatives			
Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order)	N/A 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
N/A	N/A	N/A	N/A	N/A	N/A
N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
N/A	N/A	N/A	N/A	N/A	N/A

GS did not trade these financial instruments with retail clients.





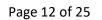
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Currency derivatives: (i) Futures and options admitted to trading on a trading venue

Type of Client: Retail Client Reporting Entity: GSBE					
Class of Instrument	Currency derivatives: (i) Futures an	d options admitted to trading on a tr	rading venue		
Notification if <1 average trade per business day in the previous year	N/A				
op five execution venues ranked in terms of trading volumes (descending order)	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
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
Γορ Five Broker Report Γγρe of Client: Retail Client					
Reporting Entity: GSBE		d options admitted to trading on a tr	rading venue		
Reporting Entity: GSBE	Currency derivatives: (i) Futures an N/A Proportion of volume traded as a percentage of total in that class	d options admitted to trading on a tr Proportion of orders executed as percentage of total in that class	rading venue Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Reporting Entity: GSBE Class of Instrument Notification if <1 average trade per business day in the previous year	N/A Proportion of volume traded as a	Proportion of orders executed as		Percentage of aggressive orders N/A	Percentage of directed orders
Reporting Entity: GSBE Class of Instrument Notification if <1 average trade per business day in the previous year fop five execution venues ranked in terms of trading volumes (descending order)	N/A 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		
Reporting Entity: GSBE Class of Instrument Iotification if <1 average trade per business day in the previous year	N/A Proportion of volume traded as a percentage of total in that class N/A	Proportion of orders executed as percentage of total in that class N/A	Percentage of passive orders N/A	N/A	N/A
eporting Entity: GSBE lass of Instrument otification if <1 average trade per business day in the previous year op five execution venues ranked in terms of trading volumes (descending order) N/A N/A	N/A Proportion of volume traded as a percentage of total in that class N/A N/A	Proportion of orders executed as percentage of total in that class N/A N/A	Percentage of passive orders N/A N/A	N/A N/A	N/A N/A







Currency derivatives: (ii) Swaps, forwards, and other currency derivatives

Currency derivatives: (ii) Swaps, for	rwards, and other currency derivativ	es		
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
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A
Currency derivatives: (ii) Swaps, for	rwards, and other currency derivativ	es		
N				
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
81.12	2 78.95	5 N/A	N/A	N/A
17.00) 17.54	1 N/A	N/A	N/A
1.88	3.51	I N/A	N/A	N/A
	N/A Proportion of volume traded as a percentage of total in that class N/A Proportion of volume traded as a percentage of total in that class 81.12 17.00	N/A Proportion of volume traded as a percentage of total in that class N/A N/A Proportion of volume traded as a percentage of total in that class Proportion of volume traded as a percentage of total in that class 17.00 17.54	Proportion of volume traded as a percentage of total in that class Proportion of orders executed as percentage of passive orders N/A N/A N/A Variation of volume traded as a percentage of total in that class Percentage of passive orders percentage of total in that class Proportion of volume traded as a percentage of total in that class Percentage of total in that class Proportion of total in that class N/A N/A N/A 17.00 17.54 N/A	N/A Proportion of volume traded as a percentage of total in that class Proportion of orders executed as percentage of passive orders Percentage of aggressive orders N/A N/A N/A N/A Virable Percentage of orders executed as a percentage of total in that class Percentage of passive orders Percentage of total in that class Percentage of total in that class Percentage of passive orders

1. Topic 1: an explanation of the relative importance the firm gave to the execution factors of price, costs, speed, likelihood of execution or any other consideration including qualitative factors when assessing the quality of execution:

This qualitative commentary covers the activity of the Private Wealth Management Division which is the only part of Goldman Sachs Bank Europe SE ("GS") providing execution services to retail clients. For further information on the Private Wealth Management Division's best execution arrangements please refer to the relevant summary which is available at: http://www.goldmansachs.com/disclosures/mifid/.

These instruments are often traded on a request for quote basis, including where clients approach us for a quote and the client ultimately decides whether to proceed with the transaction based upon the price provided by us and those of other liquidity providers from whom it has sourced quotes. In these circumstances we would not expect clients to be legitimately relying on us to provide best execution and therefore our best execution obligations for these instruments are likely to apply in more limited circumstances.

To the extent we determined we owed best execution and, subject to any specific instructions, GS generally gave the highest priority to total consideration for retail clients. Other execution factors, to the extent relevant, were generally given equal ranking.

2. Topic 2: a description of any close links, conflicts of interests, and common ownerships with respect to any execution venues used to execute orders;

Private Wealth Management Division executes currency derivatives via the Securities Division of Goldman Sachs, including Goldman Sachs International and where and if appropriate, other GS affiliates.

Goldman Sachs and persons connected with Goldman Sachs provide diversified financial services to a broad range of clients and counterparties and circumstances may arise in which Goldman Sachs may have a conflict of interest.

For further details on the execution venues used by the Private Wealth Management Division and its conflicts of interest policy, please refer to the Private Wealth Management Division's best execution summary which is available at: http://www.goldmansachs.com/disclosures/mifid/.

3. Topic 3: a description of any specific arrangements with any execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received;

Not applicable.

4. Topic 4: an explanation of the factors that led to a change in the list of execution venues listed in the firm's execution policy, if such a change occurred;

There has been no change to the execution venues listed in GS' execution policy for the reporting period.

5. Topic 5: an explanation of how order execution differs according to client categorisation, where the firm treats categories of clients differently and where it may affect the order execution arrangements;

The Private Wealth Management Division provides order execution for retail and professional clients.

A client's regulatory categorisation is an important factor both in the assessment of whether the client is relying on GS to deliver best execution and in providing best execution. The starting presumption is that retail clients do legitimately rely on GS to protect their interests in relation to pricing and other elements of the transaction that may be affected by the choice made by GS in executing the relevant order (i.e. GS owes a duty of best execution to retail clients) and professional clients do not legitimately rely on GS to protect to protect their interests; however, these presumptions may be revised depending on the application of the four-fold test for determining legitimate reliance to the particular circumstances of GS' interaction with the client and how the market operates for the relevant product.

To the extent we determine we do owe best execution and subject to any specific instructions, GS will generally give the highest priority to: • net price for professional clients; and

• total consideration for retail clients.

Other execution factors, to the extent relevant, are generally given equal ranking.

6. Topic 6: an explanation of whether other criteria were given precedence over immediate price and cost when executing retail client orders and how these other criteria were instrumental in delivering the best possible result in terms of the total consideration to the client;

Subject to any specific instructions, GS will generally not give precedence over immediate price and cost when executing retail client order.

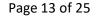
If GS receives an order from a retail client that includes a specific instruction or specific instructions in relation to the handling and execution of the entire order or a particular aspect or aspects of an order (including selecting a particular execution venue, executing at a particular price or time or through the use of a particular strategy) then, subject to GS' legal and regulatory obligations, GS will execute the retail client's order in accordance with that specific instruction. Where the specific instruction covers only a portion of an order (including selecting a particular execution covers only a portion of an order (for example, as to the choice of execution venue), and GS has discretion over the execution of other elements of the order, then GS will continue to be subject to the best execution obligation in respect of the elements of the order that are not covered by the client's specific instruction.

7. Topic 7: an explanation of how the investment firm has used any data or tools relating to the quality of execution, including any data published under RTS 27;

GS has in place post-execution supervisory monitoring procedures which use market data, where it is available, to assess client transactions against relevant market prices and benchmarks. For products with no observable external market data other criteria are used to benchmark client transactions for monitoring purposes. This monitoring is undertaken on a manual basis in accordance with internal monitoring policies and procedures. As part of its overall best execution monitoring framework and on-going assessment of execution venues utilised, GS may also take account of information published under RTS 27 by those execution venues (if applicable) alongside data sources used as part of its systematic best execution monitoring arrangements.

8. Topic 8: where applicable, an explanation of how the investment firm has used output of a consolidated tape provider established under Article 65 of Directive 2014/65/EU.

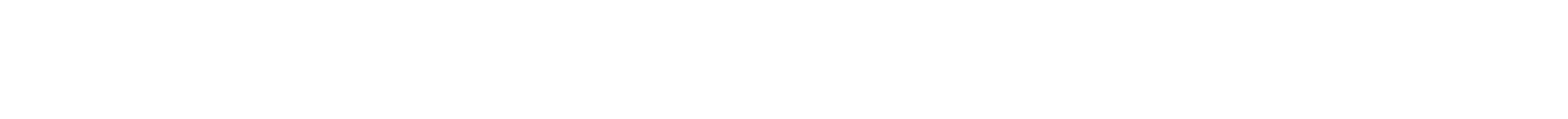


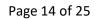


Structured finance instruments

op Five Venue Report					
pe of Client: Retail Client					
eporting Entity: GSBE					
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)	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
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
op Five Broker Report					
Туре of Client: Retail Client					
Reporting Entity: GSBE					
	Structured finance instruments				
Reporting Entity: GSBE Class of Instrument Notification if <1 average trade per business day in the previous year	Structured finance instruments				
	Structured finance instruments N/A 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 order
Class of Instrument Notification if <1 average trade per business day in the previous year	N/A Proportion of volume traded as a	-	Percentage of passive orders N/A	Percentage of aggressive orders N/A	Percentage of directed order
Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order)	N/A Proportion of volume traded as a percentage of total in that class	percentage of total in that class			
Class of Instrument Notification if <1 average trade per business day in the previous year Fop five execution venues ranked in terms of trading volumes (descending order) N/A	N/A Proportion of volume traded as a percentage of total in that class N/A	percentage of total in that class N/A	N/A	N/A	N/A
Class of Instrument Notification if <1 average trade per business day in the previous year Fop five execution venues ranked in terms of trading volumes (descending order) N/A N/A	N/A Proportion of volume traded as a percentage of total in that class N/A N/A	percentage of total in that class N/A N/A	N/A N/A	N/A N/A	N/A







Equity Derivatives: (i) Options and Futures admitted to trading on a trading venue

Reporting Entity: GSBE					
op Five Venue Report					
ype of Client: Retail Client					
Reporting Entity: GSBE					
Class of Instrument	Equity Derivatives: (i) Options and	Futures admitted to trading on a trac	lingvonuo		
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)	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
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
Type of Client: Retail Client Reporting Entity: GSBE					
Class of Instrument	Equity Derivatives: (i) Options and	Futures admitted to trading on a trac	ling venue		
Notification if <1 average trade per business day in the previous year	N				
Top five execution venues ranked in terms of trading volumes (descending order)	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
W22LROWP2IHZNBB6K528 - (GS) GOLDMAN SACHS INTERNATIONAL	62.93	3 60.31	5.00	95.00	0
81F8KH474EY7PUWI149 - (GS) GOLDMAN SACHS BANK AG ZURICH	32.57	7 31.85	5.00	95.00	0
OR8UP27PHTHYVLBNG30 - GOLDMAN SACHS & CO. LLC	4.50	7.85	5.00	95.00	C

1. Topic 1: an explanation of the relative importance the firm gave to the execution factors of price, costs, speed, likelihood of execution or any other consideration including qualitative factors when assessing the quality of execution:

This qualitative commentary covers the activity of the Private Wealth Management Division which is the only part of Goldman Sachs Bank Europe SE ("GS") providing execution services to retail clients. For further information on the Private Wealth Management Division's best execution arrangements please refer to the relevant summary which is available at: http://www.goldmansachs.com/disclosures/mifid/.

These instruments are typically traded only on the execution venue of their listing and therefore client orders in the instrument will determine the execution venue. Application of best execution is therefore limited to liquidity available on the relevant execution venue for the instrument.

Where GS determined it had a best execution obligation in respect of an order, GS took into account the following criteria for determining the relative importance of the execution factors in the circumstances:

• the characteristics of the client including the regulatory categorisation of the client;

the characteristics of the relevant order;

• the characteristics of financial instruments that are the subject of the relevant order; and

• the characteristics of the execution venue to which that relevant order can be directed.

Subject to any specific instructions, taking into account the criteria above, GS generally gave the highest priority to total consideration for retail clients. The remaining factors, to the extent applicable, were generally given equal ranking.

2. Topic 2: a description of any close links, conflicts of interests, and common ownerships with respect to any execution venues used to execute orders;

Private Wealth Management Division executes exchange traded equity options via the Securities Division of Goldman Sachs International, and where appropriate, other GS affiliates.

Goldman Sachs and persons connected with Goldman Sachs provide diversified financial services to a broad range of clients and counterparties and circumstances may arise in which Goldman Sachs may have a conflict of interest.

For further details on the execution venues used by the Private Wealth Management Division and its conflicts of interest policy, please refer to the Private Wealth Management Division's best execution summary which is available at: http://www.goldmansachs.com/disclosures/mifid/.

3. Topic 3: a description of any specific arrangements with any execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received;

Some execution venues may offer differing fee plans to trading members depending on the volume and nature/type of a trading activity on the venue as well as fee discounts depending on average volume of trading undertaken. Such arrangements apply equally to all trading members who satisfy the relevant criteria under the execution venue's rules. Information on such arrangements is publically available on the relevant execution venue's website. Our decision to route orders to a particular venue for execution for this asset class is typically driven by the listing of the product the client wishes to trade, and is not influenced by any such fee structure or volume discount.

4. Topic 4: an explanation of the factors that led to a change in the list of execution venues listed in the firm's execution policy, if such a change occurred;

There has been no change to the execution venues listed in GS' execution policy for the reporting period.

5. Topic 5: an explanation of how order execution differs according to client categorisation, where the firm treats categories of clients differently and where it may affect the order execution arrangements;

The Private Wealth Management Division provides order execution for retail and professional clients.

A client's regulatory categorisation is an important factor both in the assessment of whether the client is relying on GS to deliver best execution and in providing best execution. The starting presumption is that retail clients do legitimately rely on GS to protect their interests in relation to pricing and other elements of the transaction that may be affected by the choice made by GS in executing the relevant order (i.e. GS owes a duty of best execution to retail clients) and professional clients do not legitimately rely on GS to protect to protect their interests; however, these presumptions may be revised depending on the application of the four-fold test for determining legitimate reliance to the particular circumstances of GS' interaction with the client and how the market operates for the relevant product.

Subject to any specific instructions, GS will generally give the highest priority to:net price for professional clients; andtotal consideration for retail clients.

6. Topic 6: an explanation of whether other criteria were given precedence over immediate price and cost when executing retail client orders and how these other criteria were instrumental in delivering the best possible result in terms of the total consideration to the client;

Subject to any specific instructions, GS will generally not give precedence over immediate price and cost when executing retail client orders.

If GS receives an order from a retail client that includes a specific instruction or specific instructions in relation to the handling and execution of the entire order or a particular aspect or aspects of an order (including selecting a particular execution venue, executing at a particular price or time or through the use of a particular strategy) then, subject to GS' legal and regulatory obligations, GS will execute the retail client's order in accordance with that specific instruction. Where the specific instruction covers only a portion of a particular or der (including selecting a particular strategy) then, subject to GS' legal and regulatory obligations, GS will execute the retail client's order in accordance with that specific instruction. Where the specific instruction covers only a portion of an order (for example, as to the choice of execution venue), and GS has discretion over the execution of other elements of the order, then GS will continue to be subject to the best execution obligation in respect of the elements of the order that are not covered by the client's specific instruction.

7. Topic 7: an explanation of how the investment firm has used any data or tools relating to the quality of execution, including any data published under RTS 27;

GS has in place post-execution supervisory monitoring procedures which use market data, where it is available, to assess client transactions against relevant market prices and benchmarks. For products with no observable external market data other criteria are used to benchmark client transactions for monitoring purposes. This monitoring is undertaken on a manual basis in accordance with internal monitoring policies and procedures. As part of its overall best execution monitoring framework and on-going assessment of execution venues utilised, GS may also take account of information published under RTS 27 by those execution venues (if applicable) alongside data sources used as part of its systematic best execution monitoring arrangements.

8. Topic 8: where applicable, an explanation of how the investment firm has used output of a consolidated tape provider established under Article 65 of Directive 2014/65/EU.

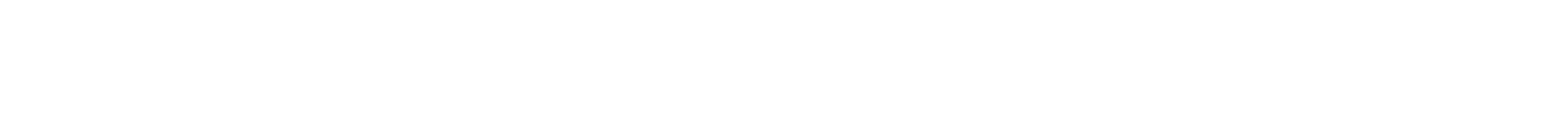


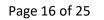


Equity Derivatives: (ii) Swaps and other equity derivatives

Top Five Venue Report						
Type of Client: Retail Client						
Reporting Entity: GSBE						
Class of Instrument	Equity Derivatives: (ii) Swaps and c	ther equity derivatives				
Notification if <1 average trade per business day in the previous year	N/A Departies of volume traded as a Departies of orders evented as Departage of passive orders Departage of aggressive orders Departage of directed orders					
Top five execution venues ranked in terms of trading volumes (descending order)	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	
N/A	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	
Top Five Broker Report						
Reporting Entity: GSBE	Equity Derivatives: (ii) Swaps and c	ther equity derivatives				
Type of Client: Retail Client Reporting Entity: GSBE Class of Instrument Notification if <1 average trade per business day in the previous year	Equity Derivatives: (ii) Swaps and c	ther equity derivatives				
Reporting Entity: GSBE		Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders	
Reporting Entity: GSBE Class of Instrument Notification if <1 average trade per business day in the previous year	N/A Proportion of volume traded as a	Proportion of orders executed as	Percentage of passive orders N/A	Percentage of aggressive orders	Percentage of directed orders N/A	
Reporting Entity: GSBE Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order)	N/A Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class				
Reporting Entity: GSBE Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) N/A	N/A Proportion of volume traded as a percentage of total in that class N/A	Proportion of orders executed as percentage of total in that class N/A	N/A	N/A	N/A	
Reporting Entity: GSBE Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) N/A N/A	N/A Proportion of volume traded as a percentage of total in that class N/A N/A	Proportion of orders executed as percentage of total in that class N/A N/A	N/A N/A	N/A N/A	N/A N/A	







Securitized Derivatives: (i) Warrants and Certificate Derivatives

Reporting Entity: GSBE							
p Five Venue Report							
pe of Client: Retail Client							
eporting Entity: GSBE							
lass of Instrument	Securitized Derivatives: (i) Warrant	s and Certificate Derivatives					
lotification if <1 average trade per business day in the previous year	N/A						
op five execution venues ranked in terms of trading volumes (descending order)	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		
N/A	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A		
ype of Client: Retail Client Reporting Entity: GSBE							
Class of Instrument	Securitized Derivatives: (i) Warrant	s and Certificate Derivatives					
Notification if <1 average trade per business day in the previous year	Y						
Top five execution venues ranked in terms of trading volumes (descending order)	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		
V22LROWP2IHZNBB6K528 - (GS) GOLDMAN SACHS INTERNATIONAL	58.81	50.00	N/A	N/A	N/A		
OR8UP27PHTHYVLBNG30 - GOLDMAN SACHS & CO. LLC	41.19	50.00	N/A	N/A	N/A		

1. Topic 1: an explanation of the relative importance the firm gave to the execution factors of price, costs, speed, likelihood of execution or any other consideration including qualitative factors when assessing the quality of execution:

This qualitative commentary covers the activity of the Private Wealth Management Division which is the only part of Goldman Sachs Bank Europe SE ("GS") providing execution services to retail clients. For further information on the Private Wealth Management Division's best execution arrangements please refer to the relevant summary which is available at: http://www.goldmansachs.com/disclosures/mifid/.

These instruments are typically traded only on the execution venue of their listing and therefore client orders in the instrument will determine the execution venue. Application of best execution is therefore limited to liquidity available on the relevant execution venue for the instrument.

Where GS determined it had a best execution obligation in respect of an order, GS took into account the following criteria for determining the relative importance of the execution factors in the circumstances:

• the characteristics of the client including the regulatory categorisation of the client;

• the characteristics of the relevant order;

• the characteristics of financial instruments that are the subject of the relevant order; and

• the characteristics of the execution venue to which that relevant order can be directed.

Subject to any specific instructions, taking into account the criteria above, GS generally gave the highest priority to total consideration for retail clients.

2. Topic 2: a description of any close links, conflicts of interests, and common ownerships with respect to any execution venues used to execute orders;

The Private Wealth Management Division utilises different execution venues to execute client orders. Private Wealth Management operates an "open architecture" model for executing all trades in these financial instruments trades unless the open architecture platform does not support a certain product or an order is subject to specific instructions. Where this is the case, Private Wealth Management can trade through the Securities Division of Goldman Sachs. GS is a member of the Goldman Sachs group of companies. Execution quality received from affiliated entities is subject to the same monitoring and assessment applied to third party entities and execution venues utilised by Goldman Sachs group companies for execution of client orders.

For further details on the execution venues used by the Private Wealth Management Division and its conflicts of interest policy, please refer to the Private Wealth Management Division's best execution summary which is available at: http://www.goldmansachs.com/disclosures/mifid/.

3. Topic 3: a description of any specific arrangements with any execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received;

Not applicable.

4. Topic 4: an explanation of the factors that led to a change in the list of execution venues listed in the firm's execution policy, if such a change occurred;

The Private Wealth Management Division revised our execution venue list for this asset class to include an additional issuer on the open architecture platform providing further issuer credit diversification and optionality for our clients.

5. Topic 5: an explanation of how order execution differs according to client categorisation, where the firm treats categories of clients differently and where it may affect the order execution arrangements;

The Private Wealth Management Division provides order execution for retail and professional clients.

A client's regulatory categorisation is an important factor both in the assessment of whether the client is relying on GS to deliver best execution and in providing best execution. The starting presumption is that retail clients do legitimately rely on GS to protect their interests in relation to pricing and other elements of the transaction that may be affected by the choice made by GS in executing the relevant order (i.e. GS owes a duty of best execution to retail clients) and professional clients do not legitimately rely on GS to protect to protect their interests; however, these presumptions may be revised depending on the application of the four-fold test for determining legitimate reliance to the particular circumstances of GS' interaction with the client and how the market operates for the relevant product.

Subject to any specific instructions and issuer concentration limits, GS will generally give the highest priority to:
net price for professional clients. The remaining execution factors, to the extent applicable, are generally given equal ranking; and
total consideration for retail clients.

6. Topic 6: an explanation of whether other criteria were given precedence over immediate price and cost when executing retail client orders and how these other criteria were instrumental in delivering the best possible result in terms of the total consideration to the client;

GS did not generally give precedence over immediate price and cost when executing retail client orders. However, credit diversification of a retail client's portfolio; comparison of issuer credit ratings and likelihood of execution were taken into account in certain client specific situations for retail clients.

These factors delivered the best possible result in terms of total consideration to the retail client within the risk framework agreed with the retail client as applicable to the client's portfolio.

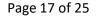
7. Topic 7: an explanation of how the investment firm has used any data or tools relating to the quality of execution, including any data published under RTS 27;

GS has in place post execution supervisory monitoring procedures which use market data, where it is available, to assess client transactions against relevant market prices and benchmarks. For products with no observable external market data other criteria are used to benchmark client transactions for monitoring purposes. This monitoring is undertaken on a manual basis in accordance with internal monitoring policies and procedures. As part of its overall best execution monitoring framework and on-going assessment of execution venues utilised, GS may also take account of information published under RTS 27 by those execution venues (if applicable) alongside data sources used as part of its systematic best execution monitoring arrangements.

8. Topic 8: where applicable, an explanation of how the investment firm has used output of a consolidated tape provider established under Article 65 of Directive 2014/65/EU.

N/A

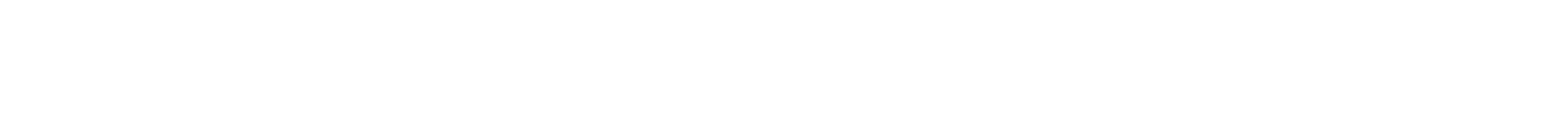


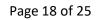


Securitized Derivatives: (ii) Other securitized derivatives

Top Five Venue Report							
Type of Client: Retail Client							
Reporting Entity: GSBE							
Class of Instrument	Securitized Derivatives: (ii) Other se	ecuritized derivatives					
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)	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		
N/A	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A		
Type of Client: Retail Client							
Type of Client: Retail Client Reporting Entity: GSBE	Cognitized Derivatives: (ii) Other s	ocuritized dorivatives					
Top Five Broker Report Type of Client: Retail Client Reporting Entity: GSBE Class of Instrument	Securitized Derivatives: (ii) Other s	ecuritized derivatives					
Type of Client: Retail Client Reporting Entity: GSBE	Securitized Derivatives: (ii) Other so N/A Proportion of volume traded as a percentage of total in that class	ecuritized derivatives Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders		
Type of Client: Retail Client Reporting Entity: GSBE Class of Instrument Notification if <1 average trade per business day in the previous year	N/A Proportion of volume traded as a	Proportion of orders executed as	Percentage of passive orders N/A	Percentage of aggressive orders N/A	Percentage of directed orders N/A		
Type of Client: Retail Client Reporting Entity: GSBE Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order)	N/A Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class					
Type of Client: Retail Client Reporting Entity: GSBE Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) N/A	N/A Proportion of volume traded as a percentage of total in that class N/A	Proportion of orders executed as percentage of total in that class N/A	N/A	N/A	N/A		
Type of Client: Retail Client Reporting Entity: GSBE Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) N/A N/A	N/A Proportion of volume traded as a percentage of total in that class N/A N/A	Proportion of orders executed as percentage of total in that class N/A N/A	N/A N/A	N/A N/A	N/A N/A		



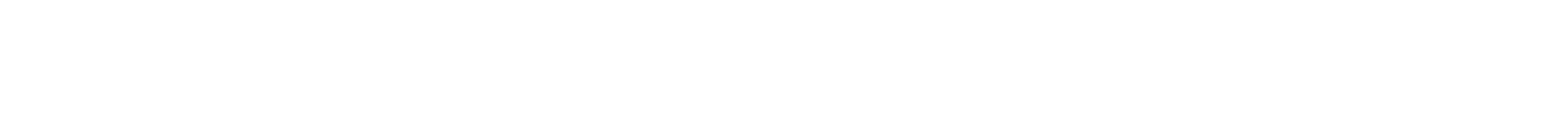




Commodities derivatives and emission allowances Derivatives: (i) Options and Futures admitted to trading on a trading venue

Reporting Entity: GSBE						
op Five Venue Report						
ype of Client: Retail Client						
eporting Entity: GSBE						
Class of Instrument	Commodities derivatives and emiss	ion allowances Derivatives: (i) Optio	ns and Futures admitted to trading of	on a trading venue		
Notification if <1 average trade per business day in the previous year	N/A					
op five execution venues ranked in terms of trading volumes (descending order)	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	
N/A	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	
op Five Broker Report Type of Client: Retail Client Reporting Entity: GSBE						
Class of Instrument	Commodities derivatives and emiss	ion allowances Derivatives: (i) Optio	ns and Futures admitted to trading	on a trading venue		
Iotification if <1 average trade per business day in the previous year	N/A			0		
op five execution venues ranked in terms of trading volumes (descending order)	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	
op five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a		Percentage of passive orders N/A	Percentage of aggressive orders N/A	Percentage of directed order	
	Proportion of volume traded as a percentage of total in that class	percentage of total in that class				
N/A	Proportion of volume traded as a percentage of total in that class N/A	percentage of total in that class N/A	N/A	N/A	N/A	
N/A N/A	Proportion of volume traded as a percentage of total in that class N/A N/A	percentage of total in that class N/A N/A	N/A N/A	N/A N/A	N/A N/A	



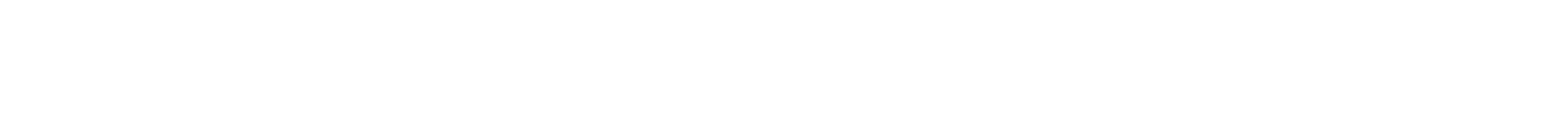


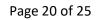


Commodities derivatives and emission allowances Derivatives: (ii) Other commodities derivatives and emission allowances derivatives

Reporting Entity: GSBE						
pp Five Venue Report						
pe of Client: Retail Client						
eporting Entity: GSBE						
lass of Instrument	Commodities derivatives and emiss	ion allowances Derivatives: (ii) Othe	r commodities derivatives and emis	ssion allowances derivatives		
lotification if <1 average trade per business day in the previous year	N/A					
op five execution venues ranked in terms of trading volumes (descending order)	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	
N/A	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	
op Five Broker Report Type of Client: Retail Client Reporting Entity: GSBE						
Class of Instrument	Commodities derivatives and emiss	ion allowances Derivatives: (ii) Othe	r commodities derivatives and emis	ssion allowances derivatives		
Iotification if <1 average trade per business day in the previous year	N/A					
op five execution venues ranked in terms of trading volumes (descending order)	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	
		NI / A	N/A	N/A	N/A	
N/A	N/A	N/A				
N/A N/A	N/A N/A	N/A N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	





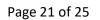


Contracts for difference

Reporting Entity: GSBE					
op Five Venue Report					
ype of Client: Retail Client					
Reporting Entity: GSBE					
Class of Instrument	Contracts for difference				
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)	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
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
Reporting Entity: GSI Type of Client: Retail Client Reporting Entity: GSBE					
Class of Instrument	Contracts for difference				
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)	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
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A







Exchange traded products (Exchange traded funds, exchange traded notes and exchange traded commodities)

Reporting Entity: GSBE						
Top Five Venue Report						
Type of Client: Retail Client						
Reporting Entity: GSBE						
Class of Instrument		e traded funds, exchange traded note	es and exchange traded commodities	;)		
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)	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	
N/A	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	
Type of Client: Retail Client Reporting Entity: GSBE Class of Instrument	Exchange traded products (Exchange	e traded funds, exchange traded not	es and exchange traded commoditie	s)		
Notification if <1 average trade per business day in the previous year	N			5)		
Top five execution venues ranked in terms of trading volumes (descending order)	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	
W22LROWP2IHZNBB6K528 - (GS) GOLDMAN SACHS INTERNATIONAL	67.20	54.17	5.60	94.40	0.00	
S81F8KH474EY7PUWI149 - (GS) GOLDMAN SACHS BANK AG ZURICH	32.19	44.32	5.60	94.40	0.00	
FOR8UP27PHTHYVLBNG30 - GOLDMAN SACHS & CO. LLC	0.61	. 1.52	5.60	94.40	0.00	

1. Topic 1: an explanation of the relative importance the firm gave to the execution factors of price, costs, speed, likelihood of execution or any other consideration including qualitative factors when assessing the quality of execution:

This qualitative commentary covers the activity of the Private Wealth Management Division which is the only part of Goldman Sachs Bank Europe SE ("GS") providing execution services to retail clients. For further information on the Private Wealth Management Division's best execution arrangements please refer to the relevant summary which is available at: http://www.goldmansachs.com/disclosures/mifid/.

These instruments are typically traded only on the execution venue of their listing and therefore client orders in the instrument will determine the execution venue. Application of best execution is therefore limited to liquidity available on the relevant execution venue for the instrument.

Where GS determined it had a best execution obligation in respect of an order, GS took into account the following criteria for determining the relative importance of the execution factors in the circumstances:

• the characteristics of the client including the regulatory categorisation of the client;

• the characteristics of the relevant order;

• the characteristics of financial instruments that are the subject of the relevant order; and

• the characteristics of the execution venue to which that relevant order can be directed.

Subject to any specific instructions, taking into account the criteria above, GS generally gave the highest priority to total consideration for retail clients. The remaining factors, to the extent applicable, were generally given equal ranking.

Notwithstanding the above, we prioritise one or more of the other execution factors in the following scenarios: (i) there was insufficient immediately available liquidity on the relevant execution venues to execute the relevant order in full; or (ii) where a client instructed us to work a relevant order over a period of time or by reference to a benchmark calculated over a period of time (such as VWAP); or (iii) we determined that there were other circumstances such that obtaining the best immediately available price may not be the best possible result for the client. In these cases, we determined the relative priority of each execution factor on an order-by-order basis, where the order is executed manually, and by order type (e.g. iceberg, VWAP), where the order was executed using an algorithm.

2. Topic 2: a description of any close links, conflicts of interests, and common ownerships with respect to any execution venues used to execute orders;

The Private Wealth Management Division executes exchange traded products via the Securities Division of Goldman Sachs International (GSI), and where appropriate, other GS affiliates. The Private Wealth Management Division has determined that it can consistently achieve the best results for its clients using a single execution venue.

For further details on the execution venues used by the Private Wealth Management Division and its conflicts of interest policy, please refer to the Private Wealth Management Division's best execution summary which is available at: http://www.goldmansachs.com/disclosures/mifid/.

Goldman Sachs and persons connected with Goldman Sachs provide diversified financial services to a broad range of clients and counterparties and circumstances may arise in which Goldman Sachs may have a conflict of interest.

GS is a member of the Goldman Sachs group of companies. The Securities Division of GSI may execute transactions in certain asset classes with or through affiliated entities. Execution quality received from affiliated entities is subject to the same monitoring and assessment applied to third party entities and execution venues utilised by Goldman Sachs for execution of client orders.

GS has close links and/or common ownership with respect to the following entities:

SIGMA X MTF – GSI is under common ownership with Goldman Sachs International Bank which operates SIGMA X MTF, a multilateral trading facility for trading in European equity and equity-like instruments. SIGMA X MTF is operated on an independent and segregated basis to other Goldman Sachs businesses. GSI is itself one of several trading participants on SIGMA X MTF. For further information on SIGMA X MTF please visit the SIGMA X MTF website at http://gset.gs.com/sigmaxmtf/.

In addition, Goldman Sachs Group entities may have (i) minor, non-controlling ownership stakes in companies which operate or own execution venues and/or; (ii) be founding consortia members of execution venues for which it has revenue share arrangements, which Goldman Sachs may use to execute orders on behalf of clients in certain financial instruments, including:

BIDS Holdings L.P.

BOX Holdings Group, LLC

CHX Holdings, Inc.

Chi-X Global Holdings LLC

DME Holdings Limited

• SBI Japannext Co., Ltd.

LME Holdings Limited

Nasdaq NFX

National Commodities & Derivatives Exchange Ltd.

National Stock Exchange of India Limited
New York Shipping Exchange (NYSHEX)

Turquoise Global Holdings Limited

Tradeweb LLC

TradX

Goldman Sachs' decision to route orders to a particular venue for execution is determined by whether execution on such venues allows us to satisfy our best execution obligations and is not influenced by any such ownership or revenue share arrangements.

3. Topic 3: a description of any specific arrangements with any execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received;

Some execution venues may offer differing fee plans to trading members depending on the volume and nature/type of a trading activity on the venue as well as fee discounts depending on average volume of trading undertaken. Such arrangements apply equally to all trading members who satisfy the relevant criteria under the execution venue's rules. Information on such arrangements is publically available on the relevant execution venue's website. Our decision to route orders to a particular venue for execution is determined by whether execution on such venue allows us to satisfy our best execution obligations and is not influenced by any such fee structure or volume discount.

4. Topic 4: an explanation of the factors that led to a change in the list of execution venues listed in the firm's execution policy, if such a change occurred;

Goldman Sachs maintains internal procedures for the selection of Brokers, Trading Venues and other execution venues, both at the stage of on-boarding and throughout the relationship, in order to satisfy ourselves that those selections enable us to obtain best execution on a consistent basis. These procedures include undertaking due diligence and regular assessments of execution quality.

In response to evolving market structure and client demand Goldman Sachs frequently evaluates existing and new execution venues. As a result of the latest market structure changes Goldman Sachs has added a variety of new execution venues, more specifically systematic internalisers and periodic auctions. As part of our regular evaluation of execution venues Goldman Sachs reviews a variety of execution performance metrics, including addressable liquidity, fill rate, mark-outs and latency.

5. Topic 5: an explanation of how order execution differs according to client categorisation, where the firm treats categories of clients differently and where it may affect the order execution arrangements;

The Private Wealth Management Division provides order execution for retail and professional clients.

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A client's regulatory categorisation is an important factor both in the assessment of whether the client is relying on GS to deliver best execution and in providing best execution. The starting presumption is that retail clients do legitimately rely on GS to protect their interests in relation to pricing and other elements of the transaction that may be affected by the choice made by GS in executing the relevant order (i.e. GS owes a duty of best execution to retail clients) and professional clients do not legitimately rely on GS to protect to protect their interests; however, these presumptions may be revised depending on the application of the four-fold test for determining legitimate reliance to the particular circumstances of GS' interaction with the client and how the market operates for the relevant product.

Subject to any specific instructions and issuer concentration limits, GS will generally give the highest priority to:
net price for professional clients. The remaining execution factors, to the extent applicable, are generally given equal ranking; and
total consideration for retail clients.

6. Topic 6: an explanation of whether other criteria were given precedence over immediate price and cost when executing retail client orders and how these other criteria were instrumental in delivering the best possible result in terms of the total consideration to the client;

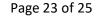
Subject to any specific instructions, GS will generally give the highest priority to total consideration for its retail clients.

If GS receives an order from a retail client that includes a specific instruction or specific instructions in relation to the handling and execution of the entire order or a particular aspect or aspects of an order (including selecting a particular execution venue, executing at a particular price or time or through the use of a particular strategy) then, subject to GS' legal and regulatory obligations, GS will execute the retail client's order in accordance with that specific instruction. Where the specific instruction covers only a portion of a particular or der (for example, as to the choice of execution venue), and GS has discretion over the execution of other elements of the order, then GS will continue to be subject to the best execution obligation in respect of the elements of the order that are not covered by the client's specific instruction.

7. Topic 7: an explanation of how the investment firm has used any data or tools relating to the quality of execution, including any data published under RTS 27;

GS has in place post-execution supervisory monitoring procedures which use market data, where it is available, to assess client transactions against relevant market prices and benchmarks. For products with no observable external market data other criteria are used to benchmark client transactions for monitoring purposes. This monitoring is undertaken on a manual basis in accordance with internal monitoring policies and procedures. As part of its overall best execution monitoring framework and on-going assessment of execution venues utilised, GS may also take account of information published under RTS 27 by those execution venues (if applicable) alongside data sources used as part of its systematic best execution monitoring arrangements.

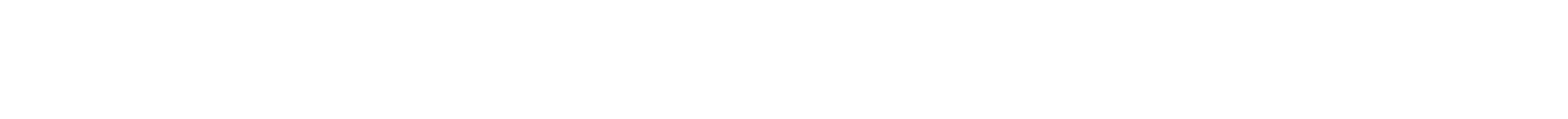
8. Topic 8: where applicable, an explanation of how the investment firm has used output of a consolidated tape provider established under Article 65 of Directive 2014/65/EU.

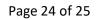


Emission Allowances

Reporting Entity: GSBE					
Top Five Venue Report					
ype of Client: Retail Client					
Reporting Entity: GSBE					
Class of Instrument	Emission Allowances				
Notification if <1 average trade per business day in the previous year	N/A				
Γop five execution venues ranked in terms of trading volumes (descending order)	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
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
Reporting Entity: GSI Type of Client: Retail Client Reporting Entity: GSBE					
Liass of instrument	Emission Allowances				
Class of Instrument Notification if <1 average trade per business day in the previous year	Emission Allowances N/A				
Class of Instrument Notification if <1 average trade per business day in the previous year Fop five execution venues ranked in terms of trading volumes (descending order)	N/A Proportion of volume traded as a	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Notification if <1 average trade per business day in the previous year	N/A Proportion of volume traded as a		Percentage of passive orders N/A	Percentage of aggressive orders N/A	Percentage of directed orders N/A
Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order)	N/A Proportion of volume traded as a percentage of total in that class	percentage of total in that class			
Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) N/A	N/A Proportion of volume traded as a percentage of total in that class N/A	percentage of total in that class N/A	N/A	N/A	N/A
Iotification if <1 average trade per business day in the previous year op five execution venues ranked in terms of trading volumes (descending order) N/A N/A	N/A Proportion of volume traded as a percentage of total in that class N/A N/A	percentage of total in that class N/A N/A	N/A N/A	N/A N/A	N/A N/A







Other instruments

Reporting Entity: GSBE							
Top Five Venue Report							
Type of Client: Retail Client							
Reporting Entity: GSBE							
Class of Instrument	Other 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)	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		
N/A	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A		
Top Five Broker Report Type of Client: Retail Client Reporting Entity: GSBE							
Class of Instrument	Other instruments						
Notification if <1 average trade per business day in the previous year	N						
Top five execution venues ranked in terms of trading volumes (descending order)	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		
FOR8UP27PHTHYVLBNG30 - GOLDMAN SACHS & CO. LLC	54.20	40.94	N/A	N/A	N/A		
S81F8KH474EY7PUWI149 - (GS) GOLDMAN SACHS BANK AG ZURICH	45.80	59.06	5 N/A	N/A	N/A		

(US listed options admitted to trade on a trading venue)

1. Topic 1: an explanation of the relative importance the firm gave to the execution factors of price, costs, speed, likelihood of execution or any other consideration including qualitative factors when assessing the quality of execution:

This qualitative commentary covers the activity of the Private Wealth Management Division which is the only part of Goldman Sachs Bank Europe SE ("GS") providing execution services to retail clients. For further information on the Private Wealth Management Division's best execution arrangements please refer to the relevant summary which is available at: http://www.goldmansachs.com/disclosures/mifid/.

These instruments are typically traded only on the execution venue of their listing and therefore client orders in the instrument will determine the execution venue. Application of best execution is therefore limited to liquidity available on the relevant execution venue for the instrument.

Where GS determined it had a best execution obligation in respect of an order, GS took into account the following criteria for determining the relative importance of the execution factors in the circumstances:

the characteristics of the client including the regulatory categorisation of the client;
the characteristics of the relevant order;

• the characteristics of financial instruments that are the subject of the relevant order; and

• the characteristics of the execution venue to which that relevant order can be directed.

Subject to any specific instructions, taking into account the criteria above, GS generally gave the highest priority to total consideration for retail clients. The remaining factors, to the extent applicable, were generally given equal ranking.

2. Topic 2: a description of any close links, conflicts of interests, and common ownerships with respect to any execution venues used to execute orders;

Private Wealth Management Division executes exchange traded equity options via the Securities Division of Goldman Sachs & Co, and where appropriate, other GS affiliates.

Goldman Sachs and persons connected with Goldman Sachs provide diversified financial services to a broad range of clients and counterparties and circumstances may arise in which Goldman Sachs may have a conflict of interest.

For further details on the execution venues used by the Private Wealth Management Division and its conflicts of interest policy, please refer to the Private Wealth Management Division's best execution summary which is available at: http://www.goldmansachs.com/disclosures/mifid/.

3. Topic 3: a description of any specific arrangements with any execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received;

Some execution venues may offer differing fee plans to trading members depending on the volume and nature/type of a trading activity on the venue as well as fee discounts depending on average volume of trading undertaken. Such arrangements apply equally to all trading members who satisfy the relevant criteria under the execution venue's rules. Information on such arrangements is publically available on the relevant execution venue's website. Goldman Sachs' decision to route orders to a particular venue for execution for this asset class is typically driven by the listing of the product the client wishes to trade, and is not influenced by any such fee structure or volume discount.

4. Topic 4: an explanation of the factors that led to a change in the list of execution venues listed in the firm's execution policy, if such a change occurred;

There has been no change to the execution venues listed in GS' execution policy for the reporting period.

5. Topic 5: an explanation of how order execution differs according to client categorisation, where the firm treats categories of clients differently and where it may affect the order execution arrangements;

The Private Wealth Management Division provides order execution for retail and professional clients.

A client's regulatory categorisation is an important factor both in the assessment of whether the client is relying on GS to deliver best execution and in providing best execution. The starting presumption is that retail clients do legitimately rely on GS to protect their interests in relation to pricing and other elements of the transaction that may be affected by the choice made by GS in executing the relevant order (i.e. GS owes a duty of best execution to retail clients) and professional clients do not legitimately rely on GS to protect to protect their interests; however, these presumptions may be revised depending on the application of the four-fold test for determining legitimate reliance to the particular circumstances of GS' interaction with the client and how the market operates for the relevant product.

Subject to any specific instructions, GS will generally give the highest priority to:net price for professional clients; andtotal consideration for retail clients.

Other execution factors, to the extent relevant, are generally given equal ranking.

6. Topic 6: an explanation of whether other criteria were given precedence over immediate price and cost when executing retail client orders and how these other criteria were instrumental in delivering the best possible result in terms of the total consideration to the client;

Subject to any specific instructions, GS will generally not give precedence over immediate price and cost when executing retail client orders.

If GS receives an order from a retail client that includes a specific instruction or specific instructions in relation to the handling and execution of the entire order or a particular aspect or aspects of an order (including selecting a particular execution venue, executing at a particular price or time or through the use of a particular strategy) then, subject to GS' legal and regulatory obligations, GS will execute the retail client's order in accordance with that specific instruction. Where the specific instruction covers only a portion of an order (including selecting a particular strategy) then, subject to GS' legal and regulatory obligations, GS will execute the retail client's order in accordance with that specific instruction. Where the specific instruction covers only a portion of an order (for example, as to the choice of execution venue), and GS has discretion over the execution of other elements of the order, then GS will continue to be subject to the best execution obligation in respect of the elements of the order that are not covered by the client's specific instruction.

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8. Topic 8: where applicable, an explanation of how the investment firm has used output of a consolidated tape provider established under Article 65 of Directive 2014/65/EU.

Not applicable.

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