RTS 28 Quality of Execution Annual Report

Firm: PGGM Vermogensbeheer BV

Calendar Year Disclosure Period: 1 January 2024 to 31 December 2024

Date: 30 April 2025

Summary of classes of instruments included in this report, and class of instruments not included in this report (because PGGM has not executed client orders in that class of instruments)¹:

Classes of instruments included in this report

- Debt Instruments
- Interest rates derivatives
- Equities
- Currency derivatives
- Futures

RTS 28 reporting requires firms to classify executed orders as "passive", "aggressive" or "directed", where these are defined as the following:

- "passive" order means an order entered into the order book that provided liquidity;
- "aggressive" order means an order entered into the order book that took liquidity;
- "directed" order means an order where a specific execution venue was specified by the client prior to the execution of the order.

Only orders executed directly on exchange would be eligible for this "passive" or "aggressive" classification. This is not the case with PGGM. Trading volume identified as "passive" or "aggressive" in the following reporting is therefore not applicable.

PGGM does not have any client relationships where the client directs PGGM to use a specific venue. There are therefore no directed orders.

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¹ As defined in Annex 1 of RTS 28.

Class of instrument	Debt Instruments
General observations	Debt instruments include both bonds and money market instruments.
	Summary of analysis
Execution factors	PGGM defines the best possible result as a proper balance between cost, service and client added value within the existing risk and regulatory frameworks. PGGM takes into account the following factors:
	 Sustainability factors Relationship factors Service consistency Footprint Price Cost of execution Nature and size of the order Speed and likelihood of execution Settlement factors All other relevant factors All other relevant factors Cost is determined as total cost. This includes price, and all other costs of execution, such as venue rebates, clearing cost, settlement cost and/or third party execution cost. Best Execution is a process that cannot always be drilled down to a single execution. Elements such as sustainability factors, relationship factors and service consistency need to be monitored and valued over a longer period of time.
Close links, conflicts of interest and	Close links PGGM has no close links with execution venues/brokers that were used to execute orders
common ownership with respect	Conflicts of interest PGGM has no conflicts of interest to report.
to execution venues	Common ownerships PGGM has no common ownership to report.
Specific arrangements with execution venues regarding payments made or received,	PGGM has no specific arrangements to report.

discounts, rebates or non-monetary benefits received Factors	There were no changes to the list of execution venues/brokers in PGGM's Order Execution Policy.
leading to a change in the list of execution venues listed in the order execution policy	
Differentiation across client categories	N/A - all of PGGM's clients are classified as professional clients
Use of data / tools relating to quality of execution	PGGM has used the data and/or tools relating to quality of execution coming from: Order management System Trading venues In house TCA report In house Broker review
Use of consolidated tape provider output	PGGM has not used output from consolidated tape providers, as no useful consolidated tape data was available in 2024 for this instrument type.
Use of DEA	No direct electronic access to execution venues we used. The list of the top 5 venues:

	Class of Instrument		Debt Instruments				
	Notification if <1 average trade per business day in the prvious year	N					
	Top 5 Venues in terms of volume (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed traded as a percentage of total in that class	Percentage of passive orders	Percentage of agressive orders	Percentage of directed orders	
	XFRA Deutsche Boerse AG	30,86%	21,06%	na	na	na	
	XPAR Euronext Paris S.A	13,51%	17,70%	na	na	na	
	XAMS Euronext Amsterdam	11,13%	6,07%	na	na	na	_
	MUND Boerse München	9,40%	8,43%	na	na	na	1
	XDUB Irish Stock Exchange	4,87%	30,77%	na	na	na	
Conclusion	PGGM evaluates both the execution as well as its country to evaluate brokers and counterparties a broker revieur Evaluation of transactions is done via a Transaction C 2024 TCA report indicates that PGGM acted in line with An exemption report is set up and is monitored by Cornel Electronic trading platforms are selected on basis of further market to see if the proper platforms are installed. The output of the used tools indicates that PGGM acted.	w is used. The 2024 broker re- ost Analysis (TCA) report. This th its best execution policy. mpliance. In 2024 no incidents inctionality, counterparties con d and used. The 2024 evaluat	view indicates that counterparties use s report evaluates the cost and footpri were reported. nected, liquidity offered and user-frier ion indicates that platforms used mee	nt on a transacti	on basis as well a	as over all transact	ctions. Th

Class of instrument	Interest rate derivatives
General observations	Interest rate derivatives include interest rate swaps only. In 2024 Tradeweb has been the dominant venue for Interest rate derivatives trading. This venue is one of the leading venues that supports the electronic order routing and execution of the liquidity provided by our approved counterparties. The use of this venue aids to our commitment to realise best execution.
	The top 5 consists of 5 Counterparties, currently Systemic Internalisers Summary of analysis
Execution factors	PGGM defines the best possible result as a proper balance between cost, service and client added value within the existing risk and regulatory frameworks. PGGM takes into account the following factors:
	 Sustainability factors Relationship factors Service consistency Footprint Price Cost of execution Nature and size of the order Speed and likelihood of execution Settlement factors All other relevant factors All other relevant factors Cost is determined as total cost. This includes price, and all other costs of execution, such as venue rebates, clearing cost, settlement cost and/or third party execution cost. Best Execution is a process that cannot always be drilled down to a single execution. Elements such as sustainability factors, relationship factors and service consistency need to be monitored and valued over a longer period of time.
Close links, conflicts of interest and	Close links PGGM has no close links with execution venues/brokers that were used to execute orders
common ownership with respect	Conflicts of interest PGGM has no conflicts of interest to report.
to execution venues	Common ownerships PGGM has no common ownership to report.
Specific arrangement s with execution venues regarding payments	PGGM has no specific arrangements to report.

made or received, discounts, rebates or non-monetary benefits received	
Factors leading to a change in the list of execution venues listed in the order execution policy	There were no changes to the list of execution venues/brokers in PGGM's Order Execution Policy.
Differentiatio n across client categories	N/A - all of PGGM's clients are classified as professional clients
Use of data / tools relating to quality of execution	PGGM has used the data and/or tools relating to quality of execution coming from: Order management System Trading venues In house TCA report In house Broker review
Use of consolidated tape provider output	PGGM has not used output from consolidated tape providers, as no useful consolidated tape data was available in 2024 for this instrument type.
Use of DEA	No direct electronic access to execution venues we used. The list of the top 5 venues:

Class of Instrument	Interest Rates Derivatives N					
Notification if <1 average trade per business day in the prvious year						
Top 5 Venues in terms of volume (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed traded as a percentage of total in that class	Percentage of passive orders	Percentage of agressive orders	Percentage of directed orders	
F0HUI1NY1AZMJMD8LP67 HSBC Continental Europe	30,36%	20,03%	na	na	na	
549300ZK53CNGEEI6A29 JP Morgan SE	21,21%	19,77%	na	na	na	
ROMUWSFPU8MPRO8K5P83 BNP Paribas	18,25%	22,83%	na	na	na	
6TJCK1B7E7UTXP528Y04 Citigroup Global Markets Europe AG	9,19%	10,59%	na	na	na	
549300FH0WJAPEHTIQ77 BOFA Securities Europe SA	8,36%	10,20%	na	na	na	

Conclusion

PGGM evaluates both the execution as well as its counterparties along the benchmark of its best execution definition.

To evaluate brokers and counterparties a broker review is used. The 2024 broker review indicates that counterparties used acted in line with PGGM's best execution policy.

Evaluation of transaction is done via a Transaction Cost Analysis (TCA) report. This report evaluates the cost and footprint on a transaction basis as well as over all transactions. The 2024 TCA report indicates that PGGM acted in line with its best execution policy.

An exemption report is set up and is monitored by Compliance. In 2024 no incidents were reported.

Electronic trading platforms are selected on basis of functionality, counterparties connected, liquidity offered and user-friendliness. Periodically PGGM evaluates the offerings available in the market to see if the proper platforms are installed and used. The 2024 evaluation indicates that platforms used meet the requirements in line with PGGM's best execution policy

The output of the used tools indicates that PGGM acted in line with its best execution policy during 2024.

Class of instrument	Equities
General observations	In 2024 Bloomberg has been the preferred execution management system. This venue is used to route 100% of the orders to brokers execution desks or broker algorithms. It supports an electronic order workflow, it facilitates the products PGGM uses and provides access to all our counterparties. The use of this venue aids to our commitment to realise best execution.
	Summary of analysis
Execution factors	PGGM defines the best possible result as a proper balance between cost, service and client added value within the existing risk and regulatory frameworks. PGGM takes into account the following factors:
	 Sustainability factors Relationship factors Service consistency Footprint Price Cost of execution Nature and size of the order Speed and likelihood of execution Settlement factors All other relevant factors
	Best Execution is a process that cannot always be drilled down to a single execution. Elements such as sustainability factors, relationship factors and service consistency need to be monitored and valued over a longer period of time. Monitoring of transactions is done on a trade by trade base.
Close links, conflicts of interest and	Close links PGGM has no close links with execution venues/brokers that were used to execute orders
common ownership with respect to execution	Conflicts of interest PGGM has no conflicts of interest to report. Common ownerships PGGM has no common ownership to report.
venues Specific arrangements with execution venues regarding payments made or received,	PGGM has no specific arrangements to report.

discounts, rebates or non-monetary benefits received	
Factors leading to a change in the list of execution venues listed in the order execution policy	There were no changes to the list of execution venues/brokers in the PGGM's Order Execution Policy.
Differentiatio n across client categories	N/A - all of the PGGM's clients are classified as professional clients
Use of data / tools relating to quality of execution	PGGM has used the data and/or tools relating to quality of execution coming from: Order management System Trading venues In house TCA report In house Broker review
Use of consolidated tape provider output	The Firm has not used output from consolidated tape providers.
Use of DEA	No direct electronic access to execution venues we used. The list of the top 5 venues: Tick size liquidity band 1 and 2 (from 0 to 79 trades per day) - Less liquid shares Tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day) - Medium liquid shares Tick size liquidity bands 5 and 6 (from 2000 trades per day) - Highly liquid shares

Class of Instrument	Equities - Shares & Depositary Receipts tick size liquidity bands 1 and 2 N					
Notification if <1 average trade per business day in the prvious year						
Top 5 Venues in terms of volume (descending order)	·	Proportion of orders executed traded as a percentage of total in that class	Percentage of passive orders	Percentage of agressive orders	Percentage of directed orders	
XHKG						
The Stock Exchange of Hong Kong	25,74%	0,48%	na	na	na	
XPST						
Posit Asia Pacific	10,17%	0,39%	na	na	na	
XSES						
Singapore Stock Exchange	8,58%	0,24%	na	na	na	
XTKS						
Tokyo Stock Exchange	8,14%	1,39%	na	na	na	
LIQU						
UK Liquidnet Systems	6,42%	0,81%	na	na	na	

Class of Instrument	Equities - Shares & Depositary Receipts tick size liquidity bands 3 and 4 N						
Notification if <1 average trade per business day in the prvious year							
Top 5 Venues in terms of volume (descending order)	-	Proportion of orders executed traded as a percentage of total in that class	Percentage of passive orders	Percentage of agressive orders	Percentage of directed orders		
CEUO							
CBOE Europe DXE Off Book	12,96%	1,11%	na	na	na		
CEUX							
CBOE Europe DXE Order Book	7,54%	5,57%	na	na	na		
XLON							
London Stock Exchange	7,39%	0,61%	na	na	na		
BNPA							
BNP Paribas Arbitrage SNC	5,56%	0,51%	na	na	na		
LISZ							
CBOE Europe Lis Service	4,71%	1,22%	na	na	na		

Class of Instrument	Equities - Shares & Depositary Receipts tick size liquidity bands 5 and 6					
Notification if <1 average trade per business day in the prvious year	N					
Top 5 Venues in terms of volume (descending order)	•	Proportion of orders executed traded as a percentage of total in that class	Percentage of passive orders	Percentage of agressive orders	Percentage of directed orders	
XSES						
Singapore Stock Exchange	44,62%	0,48%	na	na	na	
XASX						
Australian Stock Exchange	15,25%	0,60%	na	na	na	
CXA						
CBOE Australia	10,83%	0,05%	na	na	na	
XHKG						
The Stock Exchange of Hong Kong	7,66%	0,32%	na	na	na	
ASXC						
ASX	3,44%	0,51%	na	na	na	

Conclusion

PGGM evaluates both the execution as well as its counterparties along the benchmark of its best execution definition.

To evaluate brokers and counterparties a broker review is used. The 2024 broker review indicates that counterparties used acted in line with PGGM's best execution policy.

Evaluation of transactions is done with Transaction Cost Analysis (TCA). This report evaluates the costs on a transaction basis. For 2024 PGGM acted in line with its best execution policy.

An exemption report is set up and is monitored by Compliance. In 2024 no incidents were reported.

Electronic trading platforms are selected on basis of functionality, counterparties connected, liquidity offered and user-friendliness. Periodically PGGM evaluates the offerings available in the market to see if the proper platforms are installed and used. The 2024 evaluation indicates that platforms used meet the requirements in line with PGGM's best execution policy.

The output of the used tools indicates that PGGM acted in line with its best execution policy during 2024.

Class of instrument	Currency derivatives
General observations	In 2024 Bloomberg has been the preferred execution venue. This venue is one of the leading execution venues for FX. It supports an electronic order workflow, it facilitates the products PGGM uses and provides access to all our counterparties. The use of this venue aids to our commitment to realise best execution.
	Summary of analysis
Execution factors	PGGM defines the best possible result as a proper balance between cost, service and client added value within the existing risk and regulatory frameworks. PGGM takes into account the following factors:
	 Sustainability factors Relationship factors Service consistency Footprint Price Cost of execution Nature and size of the order Speed and likelihood of execution Settlement factors All other relevant factors Best Execution is a process that cannot always be drilled down to a single execution. Elements such as sustainability factors, relationship factors and service consistency need to be monitored and valued over a longer period of time. Monitoring of transactions is done on a trade by trade base.
Close links, conflicts of interest and	Close links PGGM has no close links with execution venues/brokers that were used to execute orders
common ownership	Conflicts of interest PGGM has no conflicts of interest to report.
with respect to execution venues	Common ownerships PGGM has no common ownership to report.
Specific arrangements with execution venues regarding payments made or received, discounts, rebates or non-monetary	PGGM has no specific arrangements to report.

leading to a change in the list of execution venues listed in the order execution policy Differentiation across client across cl	benefits received								
across client categories Use of data / tools relating to quality of execution as follows: - WM Reuters benchmark data - NewChange FX benchmark data - NewChange FX benchmark data - Render market data - Broker provided market structure data The Firm has not used output from consolidated tape providers. Use of consolidated tape provider output Use of DEA No direct electronic access to execution venues we used. The list of the top 5 venues: Class of Instrument Notification if <1 average trade per business day in the prvious year Top 5 Venues in terms of volume (descending order) BMTF Bloomberg PGGM evaluates both the execution as well as its counterparties along the benchmark of its best execution definition.	Factors leading to a change in the list of execution venues listed in the order execution policy	There were no changes to the list of execution ven	ues/brokers in the PGGM's	Order Execution Policy.					
PGGM has used the data and/or tools relating to quality of execution as follows: tools relating to quality of execution	across client	N/A - all of the PGGM's clients are classified as pro	ofessional clients						
Class of Instrument Notification if <1 average trade per business day in the prvious year Top 5 Venues in terms of volume (descending order) BMTF Bloomberg PGGM evaluates both the execution as well as its counternarties along the benchmark of its best execution definition No direct electronic access to execution venues we used. The list of the top 5 venues: Currency Derivatives Y Percentage Percentage of of agressive orders orders Percentage of total in that class orders Page Mevaluates both the execution as well as its counternarties along the benchmark of its best execution definition	categories Use of data / tools relating to quality of execution	PGGM has used the data and/or tools relating to quality of execution as follows: WM Reuters benchmark data NewChange FX benchmark data General market data							
Class of Instrument Notification if <1 average trade per business day in the prvious year Top 5 Venues in terms of volume (descending order) Proportion of volume traded as a percentage of traded as	consolidated tape provider	The Firm has not used output from consolidated ta	ape providers.						
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order) traded as a percentage of traded as a percentage of total in that class orders orders orders BMTF Bloomberg 100% 100% na na na na PGGM evaluates both the execution as well as its counterparties along the benchmark of its best execution definition		The state of the s	Y						
Bloomberg 100% 100% na na na PGGM evaluates both the execution as well as its counterparties along the benchmark of its best execution definition			traded as a percentage of	traded as a percentage of total	of passive	of agressive	directed		
PGGM evaluates both the execution as well as its counterparties along the benchmark of its best execution definition			100%	100%		na	n2		
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To evaluate brokers and counterparties a broker review is used. The 2024 broker review indicates that counterparties used acted in line with PGGM's best execution policy.

Evaluation of transaction is done via a Transaction Cost Analysis (TCA) report. This report evaluates the cost and footprint on a transaction basis as well as over all transactions. The 2024 TCA report indicates that PGGM acted in line with its best execution policy.

An exemption report is set up and is monitored by Compliance. In 2024 no incidents were reported.

Electronic trading platforms are selected on basis of functionality, counterparties connected, liquidity offered and user-friendliness. Periodically PGGM evaluates the offerings available in the market to see if the proper platforms are installed and used. The 2024 evaluation indicates that platforms used meet the requirements in line with PGGM's best execution policy

Data from several sources has been used to evaluate the execution quality. The results indicate that PGGM acted in line with its best execution policy during 2024.

Class of instrument	Futures					
General observations	In 2024 all futures have been traded on the Chicago Board of Trade and Eurex.					
	Summary of analysis					
Execution factors	PGGM defines the best possible result as a proper balance between cost, service and client added value within the existing risk and regulatory frameworks. PGGM takes into account the following factors: - Sustainability factors - Relationship factors - Service consistency - Footprint - Price - Cost of execution - Nature and size of the order - Speed and likelihood of execution - Settlement factors - All other relevant factors - All other relevant factors Best Execution is a process that cannot always be drilled down to a single execution. Elements such as sustainability factors, relationship factors and service consistency need to be monitored and valued over a longer period of time. Monitoring of transactions is done on a trade by trade base.					
Close links, conflicts of interest and	Close links PGGM has no close links with execution venues/brokers that were used to execute orders					
common ownership	Conflicts of interest PGGM has no conflicts of interest to report.					
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Specific arrangement s with execution venues regarding payments made or received, discounts, rebates or non- monetary	PGGM has no specific arrangements to report.					

benefits received	
Factors leading to a change in the list of execution venues listed in the order execution policy	There were no changes to the list of execution venues/brokers in the PGGM's Order Execution Policy.
Differentiatio n across client categories	N/A - all of the PGGM's clients are classified as professional clients
Use of data / tools relating to quality of execution	PGGM has used the data and/or tools relating to quality of execution coming from: Order management System Trading venues In house TCA report In house Broker review
Use of consolidated tape provider output	The Firm has not used output from consolidated tape providers.
Use of DEA	No direct electronic access to execution venues we used. The list of the top 5 venues:

Class of Instrument		Futures	Futures		
Notification if <1 average trade per business day in the prvious year	N				
Top 5 Venues in terms of volume (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed traded as a percentage of total in that class	Percentage of passive orders	Percentage of agressive orders	Percentage of directed orders
XCBT Chicage Board of Trade	54,81%	31,43%	na	na	na
XEUR EUREX Deutschland	45,12%	67,77%	na	na	na
IFLL ICE Futures Europe	0,07%	0,81%	na	na	na

Conclusion

PGGM evaluates both the execution as well as its counterparties along the benchmark of its best execution definition.

To evaluate brokers and counterparties a broker review is used. The 2024 broker review indicates that counterparties used acted in line with PGGM's best execution policy.

Evaluation of transactions is done with Transaction Cost Analysis (TCA). This report evaluates the costs on a transaction basis. For 2024 PGGM acted in line with its best execution policy.

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Electronic trading platforms are selected on basis of functionality, counterparties connected, liquidity offered and user-friendliness. Periodically PGGM evaluates the offerings available in the market to see if the proper platforms are installed and used. The 2024 evaluation indicates that platforms used meet the requirements in line with PGGM's best execution policy.

The output of the used tools indicates that PGGM acted in line with its best execution policy during 2024.