

# Strathclyde Pension Fund

Report on the actuarial valuation as at 31 March 2023

29 March 2024

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Classification: Public

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# 1) Executive summary

We have been commissioned by Glasgow City Council ("the Administering Authority") to carry out a valuation of Strathclyde Pension Fund ("the Fund") as at 31 March 2023. This fulfils Regulation 60 of the Local Government Pension Scheme (Scotland) Regulations 2018. This report is a summary of the valuation.



# 1. Contribution rates

The contribution rates for individual employers set at this valuation can be found in the Rates and Adjustments certificate. Table 1 shows the combined individual employer rates set at this valuation and the last valuation.

	31 Mar	ch 2023	31 Ma	rch 2020
Primary rate	21.8%	of pay	26.7%	% of pay
	2024/25	-15.0%	2021/22	-7.1%
Secondary rate	2025/26	-15.1%	2022/23	-7.1%
	2026/27	-4.7%	2023/24	-7.1%

Table 1: Whole fund contribution rates compared with the previous valuation

The overall contribution rate, expressed as a percentage of pay, has reduced due to both an improvement in the past service funding position and higher assumed future investment returns at 2023 compared to 2020.



# 2. Funding position

At 31 March 2023, the past service funding position has improved from the last valuation at 31 March 2020. Table 2 shows the single reported funding position at this valuation and the last valuation.

	31 March 2023	31 March 2020
	(£m)	(£m)
Employees	8,156	8,948
Deferred Pensioners	2,145	2,451
Pensioners	8,669	8,344
Total liabilities	18,970	19,744
Assets	27,872	20,941
Surplus (Deficit)	8,902	1,197
Fund level	147%	106%

Table 2: Single reported funding position compared with the previous valuation

The required investment return to be 100% funded is 2.6% p.a. (2.7% p.a. at 2020). The likelihood of the Fund's investment strategy achieving the required return is 94% (77% at 2020).

# 1 Approach to the valuation

## 1.1 Valuation purpose

The triennial actuarial valuation is an important part of the Fund's risk management framework. Its main purpose is to ensure the Fund continues to have a contribution plan and investment strategy that will achieve the objectives set out in the Funding Strategy Statement.

This report marks the culmination of the valuation process and contains its two key outcomes:



Employer contribution rates for the period 1 April 2024 to 31 March 2027



The funding level of the whole Fund at 31 March 2023.

Further information on the valuation process, methodology and strategy is set out in the publicly available Funding Strategy Statement, Statement of Investment Principles and published papers of the Fund's Pensions Committee. Additional material is also contained in <a href="https://example.com/hymans.com/h

# 1.2 Setting employer contribution rates

Employer contributions need to be set at a level which ensures the Fund has a reasonable likelihood of having enough money to pay members' benefits. Identifying the amount of benefits that may be paid is complex, as benefits earned today may only start being paid in 50 years' time. Over that period, there is significant uncertainty over factors which affect the cost of benefits e.g. inflation and investment returns. These uncertainties are allowed for by taking a risk-based approach to setting employer contribution rates. This approach is built around three key funding decisions set by the Fund.

#### 1.2.1 Key funding decisions



Decision 1: What is the funding target for each employer? Consider: Will the employer remain in the Fund for the long-term or exit at some point?



Decision 2: What is the funding time horizon?

Consider: How long will the employer participate in the Fund?



Decision 3: What is the required likelihood of success?

Consider: How much prudence can the employer's

covenant support in its funding plan?

# 1.2.2 Modelling approach

Asset-liability modelling is used to project each employer's assets and benefit payments into the future using 5,000 different economic scenarios. These are generated using Hymans Robertson's Economic Scenario Service (ESS). Further information on this can be found in <u>Appendix 2.</u>

A contribution rate is set for each employer which has (at least) the required likelihood of meeting the funding target over the relevant funding time horizon. The 5,000 projections of the employer's assets and benefits from the asset-liability model are used to quantify the likelihood that a given contribution rate will meet this target.

# 1.3 Measuring the funding level

The past service funding level is measured at the valuation date. While it is limited in providing insight into a funding plan, it is a useful high-level summary statistic. A market-related approach is taken to calculate both the assets and the liabilities to ensure they are consistent with one another:

The market value of the Fund's assets at the valuation date has been used.

The liabilities have been valued using assumptions based on market indicators at the valuation date (these assumptions are detailed in Appendix 2).

## 1.3.1 Calculating the liabilities

The liabilities are the value of all future payments to members based on all benefits earned up to the valuation date, expressed in today's money.

Chart 1 shows the projected payments for all members in the Fund at the valuation date. The projections are based on the membership data provided for the valuation (<u>Appendix 1</u>), the assumptions (<u>Appendix 2</u>), and our understanding of the LGPS benefit structure as at 31 March 2023 (details at www.scotlgpsregs.org).

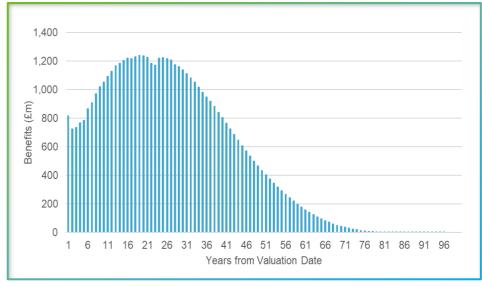


Chart 1: Projected benefit payments for all service earned up to 31 March 2023

To express the future payments in today's money, each projected payment is discounted back to the valuation date in line with an assumed rate of future investment return (known as the discount rate').

# 2 Valuation results

## 2.1 Employer contribution rates

A key objective for the Fund is to set employer contribution rates that will enable it to pay members' benefits. A secondary objective is to ensure the rates are nearly as constant as possible while achieving and managing fund solvency and long-term cost efficiency. The risk-based approach detailed earlier is used to meet both those objectives.

The employer contribution rate is made up of two components.



A primary rate: the level sufficient to cover benefits that will be accrued in the future.



A secondary rate: the costs associated with sufficiently funding benefits accrued up to the valuation date.

Each employer has a contribution rate which is appropriate to their circumstances, and these can be found in the Rates & Adjustments

Certificate (Appendix 5). The funding target, funding time horizon and required likelihood for each employer type is set out in the Fund's Funding Strategy Statement.

Broadly, contribution rates have reduced at this valuation due to both an improvement in the past service funding position and higher assumed future investment returns at 2023 compared to 2020.

However, all employers will be different, and the contribution rate will reflect the membership and experience of each employer.

Table 3 shows the total of all employer contribution rates to be paid into the Fund over the period 1 April 2024 to 31 March 2027.

	31 Marc	ch 2023	31 Ma	rch 2020
Primary rate	21.8%	of pay	26.7%	% of pay
	2024/25	-15.0%	2021/22	-7.1%
Secondary rate	2025/26	-15.1%	2022/23	-7.1%
	2026/27	-4.7%	2023/24	-7.1%

Table 3: Whole fund contribution rates compared with the previous valuation

The primary rate includes an allowance of 0.2% of pensionable pay for the Fund's expenses (0.2% of pay at the last valuation).

Employees pay a contribution to the Fund in addition to these rates. Employee contributions are set by the LGPS Regulations. The average employee contribution rate at 31 March 2023 is 6.1% of pay (6.2% at 31 March 2020).

# 2.2 Funding level

The funding level is the ratio of assets to liabilities. The market value of the assets at the valuation date is known. The value (in 'today's money') of the future benefit payments is uncertain given that the level of future investment returns is unknown.

To help understand funding risk, the liabilities and therefore the funding level has been calculated across a range of different assumptions for future investment returns (also known as 'discount rates'). The likelihood of the Fund's investment strategy (detailed in <u>Appendix 1</u>) achieving those levels of return has also been calculated.

Chart 2 shows how the funding level varies with different future investment return assumptions at 31 March 2023 (blue line). The green line shows the same analysis at 31 March 2020.



The funding position at 2023 is stronger than it was in 2020.



The funding level at 2023 will be 100% if future returns are around 2.6% pa. The likelihood of the Fund's assets yielding at least this return is around 94%.



The comparator at 2020 was a return of 2.7% pa which had a likelihood of 77%.



There is a 50% likelihood of an investment return of 8.1% pa, so the "best estimate" funding level is 237% at 31 March 2023 (150% at 2020).



Chart 2: Funding level across a range of future investment returns.

Figures on each line show the likelihood of the Fund's assets exceeding the level of return over the next 13 years.

## 2.3 Single funding level as at 31 March 2023

Whilst Chart 2 provides a better understanding of the past service funding position, there is still a requirement to report a single funding level at 31 March 2023.

To report a single funding level and funding surplus/deficit for the 2023 valuation, an assumed future investment return of 5.0% pa has been used. There is an 80% likelihood associated with this level of future investment return.

Table 4 sets out the assets and liabilities at the valuation date. The results at the 2020 valuation are shown for comparison.

The funding level and surplus/deficit figures provide a high-level snapshot of the funding position as at 31 March 2023, but there are limitations:



The liabilities are calculated using a single set of assumptions about the future and so are very sensitive to the choice of assumptions.



The market value of assets held by the Fund will change daily.

The future progression of the funding position is uncertain. If the financial and demographic assumptions made at this valuation occur in practice, employers pay contributions in line with the R&A certificate, and there are no other changes in the financial or demographic environment, we project that the funding level at the next valuation (31 March 2026) will be approximately 143%.

	31 March 2023	31 March 2020
	(£m)	(£m)
Employees	8,156	8,948
Deferred pensioners	2,145	2,451
Pensioners	8,669	8,344
Total liabilities	18,970	19,744
Assets	27,872	20,941
Surplus/(Deficit)	8,902	1,197
Funding level	147%	106%

Table 4: Single reported funding position compared with the previous valuation

The reported funding level does not directly drive the contribution rates for employers. The contribution rates take into consideration how assets and liabilities will evolve over time in different economic scenarios. They also reflect each employer's funding profile and covenant.

# 2.4 Changes since the last valuation

## 2.4.1 Events between 2020 and 2023

The most significant external event to occur since the last valuation has been the Covid-19 pandemic. However, the analysis below shows that mortality experience was broadly as expected over the period with minimal impact on the funding position.

A significant factor which has affected the funding strategy is better than expected investment returns. This has had a material positive impact on the funding position.

#### **Financial**

	Expected	Actual	Difference	Impact on funding position
Investment returns				
3-year period	9.3%	32.6%	23.4%	+£4,990m
Annual	3.0% pa	9.9% pa	6.9% pa	

Table 5: Analysis of investment return experience between 2020 and 2023 valuations

# Membership

	Expected	Actual	Difference	Impact on funding position
Pre-retirement				
Early leavers	26,418	26,792	374	+£1m
III-health retirements	1,504	1,416	-88	+£80m
Salary increases	3.3% pa	5.9% pa	2.6% pa	-£461m
Post-retirement				
Benefit increases	1.9% pa	4.5% pa	2.6% pa	-£1,389m
Pension ceasing	£47.6m	£47.4m	-£0.2m	-£24m

Table 6: Analysis of membership experience between 2020 and 2023 valuations

## 2.4.2 Outlook for the future

Expectations about the future, which inform the assumptions used to value the liabilities, have changed since the last valuation. The most significant changes are:



Future inflation: this is expected to be on average higher than at 2020 due to the current high level of inflation.



**Investment returns:** due to changes in financial markets, future investment returns are now expected to be higher than at the last valuation.

Factor	What does it affect?	What's changed?	Impact on liabilities
Future investment returns	The rate at which you discount back future benefits payments (also known as the discount rate assumption)	Future investment returns are anticipated to be higher than at 2020.	Decrease of £7,925m
Inflation	The rate at which pensions (both in payment and deferment) and CARE pots increase.	Significant increase in short-term future inflation expectations.	Increase of £3,890m
Salary increases	The rate at which future salaries will increase. This affects benefits that are still linked to final salary, i.e. accrued before 1 April 2015.	No material change since last valuation given competing factors, eg tighter budgetary conditions vs. strong job market and pressure from National Living Wage increases.	Decrease of £3m
Current life expectancy	How long we expect most people to live for based on today's current observed mortality rates.	Slight reduction in life expectancy (not allowing for Covid-related excess deaths)	Decrease of £78m
Future improvements in life expectancy	How we expect life expectancies to change (increase) in the future.	Updated model of future improvements to the most recent model available, including allowance for some recent mortality experience related to the excess deaths from the Covid 19 pandemic.	Decrease of £511m

Table 7: Summary of change in outlook

# 2.5 Reconciling the overall change in funding position

Tables 8 & 9 provide insight into the funding position change between 31 March 2020 and 31 March 2023. Firstly, the changes expected to happen (Table 8), which relate mostly to assets. Then the impact of actual experience (Table 9), which affects mainly the liabilities.

# 2.5.1 Expected development

	Surplus/deficit
	£m
31 March 2020 valuation	1,197
Cash flows	
Employer contributions paid in	1,570
Employee contributions paid in	481
Benefits paid out	-
Net transfers into/out of the Fund	
Other cash flows (e.g. expenses)	(19)
Expected changes	
Expected investment returns	1,976
Interest on benefits already accrued	(1,852)
Accrual of new benefits	(2,589)
Expected position at 31 March 2023	764

Table 8: Expected development of funding position between 2020 and 2023 valuations.

## 2.5.2 Impact of actual events

	Surplus/deficit
	£m
Expected position at 31 March 2023	764
Events between 2020 and 2023	
Salary increases greater than expected	(461)
Benefit increases greater than expected	(1,389)
III health retirement experience	80
Early leavers more than expected	1
Pensions ceasing less than expected	(24)
Other membership experience	71
Higher than expected investment returns	4,990
Changes in future expectations	
Investment returns	7,925
Inflation	(3,890)
Salary increases	3
Longevity	589
Other demographic assumptions	243
Actual position at 31 March 2023	8,902

Table 9: Impact of actual events on the funding position at 31 March 2023

<sup>\*</sup> We have insufficient data to accurately value the impact on the liabilities from transfers in/out. This has instead been combined with "Other cash flows"

# 3 Sensitivity and risk analysis

Funding benefits that are going to be paid in the future involves risk and uncertainty. The Fund therefore maintains a risk register which is regularly reviewed. Additionally, as part of the valuation, the Fund reviews sources of risk that may impact its funding position and the contribution rates payable by employers.

This section discusses some of the most significant sources of funding risk (assumptions, regulatory, administration and governance, and climate change). Further information about the Fund's approach to funding risk management, including monitoring, mitigation, and management, is set out in the Funding Strategy Statement.

The valuation results depend on the actual assumptions made about the future. By their nature, these assumptions are uncertain which means it's important to understand their sensitivity and risk levels.

#### 3.1 Contribution rates

The risk-based approach to setting employer contribution rates mitigates the limitation of relying on one set of assumptions. Therefore, there is no need to carry out additional analysis of the sensitivity of contribution rates to changes in financial assumptions, but they are sensitive to changes in demographic assumptions. The results in this section in relation to the funding position can be broadly applied to the contribution rates.

# 3.2 Funding level

#### 3.2.1 Financial assumptions

In Section 3.2 we have already set out how the results vary with the assumed future investment return. Here we consider inflation.

CPI assumption	Surplus/Deficit	Funding level
	£m	%
2.5% pa	9,383	151%
2.7% pa	8,902	147%
2.9% pa	8,407	143%

Table 10: Sensitivity of funding position to inflation assumption

# 3.2.2 Demographic assumptions

The main area of demographic risk is if people live longer than expected. Table 11 shows the impact of longer-term longevity rates improving at a faster pace (1.75% pa vs 1.5% pa used in the headline results).

Long-term rate of improvement	Surplus/Deficit	Funding level
	£m	%
1.50% pa	8,902	147%
1.75% pa	8,750	146%

Table 11: Sensitivity of the funding to longevity assumption

#### 3.3 Other risks

### 3.3.1 Regulatory, Administration and Governance risks

Potential risks in this area include change in central government legislation, which alters the future cost of the LGPS, and failures in administration processes leading to incorrect data and inaccuracies in actuarial calculations. At this valuation, specific risks include:

#### McCloud

Benefits accrued by certain members between 2015 and 2022 may increase following the McCloud case, which ruled that transitional protections introduced in 2015 for older members were discriminatory. We've made an allowance for the cost of these potential improvements, based on the guidance issued by the Scottish Public Pensions Agency on 28 April 2023. Details are set out in guide 12 of Hymans Robertson's LGPS 2023 valuation toolkit.

## Cost sharing mechanism

Benefits could change because of the 2020 cost cap valuation; the outcome is currently unknown. We have assumed that there will be no changes required to the benefit structure due to the cost cap.

#### Goodwin

As the remedy to this issue is still uncertain, it is difficult to identify who it would apply to. Given its impact is estimated to be very small for an LGPS fund, we have made no allowance for this change at the 2023 valuation.

#### **GMP Indexation**

It is assumed that all increases on GMPs for members reaching State Pension age after 6 April 2016 will be paid for by LGPS employers in the Fund. This is the same approach that was taken for the 2020 valuation.

#### 3.3.2 Post valuation events

Since 31 March 2023, there has been continued volatility in financial markets and rises in interest rates by central banks. These events affect the value of the Fund's assets and liabilities.



The Fund's investment return since 31 March 2023 is estimated to be somewhere between 5% and 10%.



Liability valuations are likely to be lower now than at 31 March 2023 due to rises in expected future investment returns and a reduction in long-term inflation expectations.

As an open scheme, with a strong covenant, the Fund takes a long-term view when considering the funding impact of such events. For employers who have a very short time horizon recent volatility may be more immediately impactful, and the Fund has engaged with these employers as appropriate.

No explicit allowance has been made for this volatility in the valuation results or contribution rates detailed in the Rates & Adjustments Certificate. The Fund will continue to monitor changes in the financial and demographic environment as part of its ongoing risk management approach.

## 3.4 Climate change

### 3.4.1 Background

Climate change is a major source of uncertainty which could affect future investment returns, inflation, and life expectancies. Therefore, the Fund has explicitly explored the resilience of its funding and investment strategy to future potential climate change outcomes.

It is impossible to confidently quantify the effect of climate risk given the significant uncertainty over the impact of different possible climate outcomes. Instead, three different climate change scenarios have been considered as a stress test (instead of trying to predict how climate change affects the funding level in the future).

All the scenarios assume that there will be a period of disruption linked either to the response to climate risk (transition risks) or the effect of it (physical risks). This disruption will lead to high volatility in financial markets, and the later the disruption, the more pronounced it will be.

More information about the scenarios detailed below can be found in guide 10 of Hymans Robertson's LGPS 2023 valuation toolkit.

## 3.4.2 Outcome of analysis

The Fund has set its funding and investment strategy using asset-liability modelling and considering two main risk metrics.



**Likelihood of success** – the chance of being fully funded in 13 years' time.



**Downside risk** – the average worst 5% of funding levels in 13 years' time.

When exploring the potential impact of climate change, the Fund has compared how these risk metrics change under each climate change scenario (against the 'core' model used when setting the funding and investment strategy). The stress-test results for the Fund are shown in Table 12. All results are in absolute terms.

Scenario	Likelihood of success	Downside risk
In com	nparison to 'core' modelling i	results
Green revolution	1% lower	4% lower
Delayed transition	1% lower	2% lower
Head in the sand	Broadly unchanged	5% higher

Table 12: Modelling results with additional climate risk testing

The 'likelihood of success' is worse in the climate scenarios. This is to be expected given that they are purposefully stress tests, and all the scenarios are bad outcomes. The 'downside risk' measure is better in the 'green revolution' scenario and worse in the 'delayed transition' and 'head in the sand' scenarios which highlights the importance of monitoring this risk and how it may evolve.

The climate risk results are not materially different to the 'core' modelling results, and not enough to suggest that the funding strategy is unduly exposed to climate change risk. The Fund will continue to monitor this risk as more information emerges and climate change modelling techniques evolve.

# 4 Final comments

The Fund's valuation operates within a broader framework, and this document should be considered alongside the following:



The Funding Strategy Statement, which in particular highlights how different employers in different circumstances have their contributions calculated.



The Statement of Investment Principles, which sets out the investment strategy for the Fund.



The general governance of the Fund, including meetings of the Pensions Committee and Local Pensions Board, decisions delegated to officers, the Fund's business plan, etc.

# 4.1 New employers joining the Fund

Any new employers or admission bodies joining the Fund should be referred to the Fund Actuary to assess the required level of contribution. Depending on the number of transferring members the ceding employer's rate may also need to be reviewed.

#### 4.2 Cessation and bulk transfers

Any employer who ceases to participate in the Fund should be referred to the Fund Actuary in accordance with Regulation 61 of the LGPS regulations.

Any bulk movement of scheme members:



involving 10 or more scheme members being transferred from or to another LGPS fund.



involving 2 or more scheme members being transferred from or to a non-LGPS pension arrangement.

should be referred to the Fund Actuary to consider the impact on the Fund.

#### 4.3 Valuation frequency

Under the LGPS regulations, the next formal valuation of the Fund is due to be carried out as at 31 March 2026 where contribution rates payable from 1 April 2027 will be set.

Craig Alexander FFA 29 March 2024

For and on behalf of Hymans Robertson LLP

Catherine McFadyen FFA

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# **Appendices**

# **Appendix 1: Data**

# **Membership data**

A summary of the membership data provided by the Fund for the 2023 valuation is set out in Table 13. The corresponding membership data from the previous valuation is also shown for reference.

The results of the valuation are dependent on the quality of the data used. We have carried out a series of validation checks on the data supplied to us by the Administering Authority to ensure that it is fit for purpose.

More information on how we verify the quality of the data used in the valuation has been shared with the Administering Authority in our report 'Data Report for the 2023 Valuation'.

#### **Asset data**

To check the membership data and derive employer asset values, we have used asset and accounting data and employer level cash flow data provided by the Fund.

Whole Fund membership data	31 March 2023	31 March 2020			
Employee members					
Number	114,937	107,828			
Total actual pay (£000)	2,820,162	2,375,355			
Total accrued pension (£000)	586,305	467,446			
Average age (liability weighted)	53.1	51.4			
Future working lifetime (years)	13	13			
Deferred pensioners (including undecideds)					
Number	74,235	65,516			
Total accrued pension (£000)	153,106	125,719			
Average age (liability weighted)	52.2	50.9			
Pensioners and dependants					
Number	90,085	81,382			
Total pensions in payment (£000)	613,987	496,897			
Average age (liability weighted)	67.9	66.8			

Table 13: Whole Fund membership data at this valuation compared with the previous valuation

# **Investment strategy**

A summary of the investment strategy allocation used for the calculation of employer contribution rates and to derive the future investment return is set out in Table 14.

This information was provided by the Fund and its investment advisor.

Asset class	Allocation
UK equities	4.5%
Overseas equities	40.0%
Infrastructure	7.5%
Private equity	8.0%
Index-linked gilts	1.5%
Fixed interest gilts	6.0%
Overseas debt	2.5%
Absolute Return Bonds	6.0%
Multi Asset Credit	4.5%
Private debt	6.0%
Property	12.5%
Cash	1.0%
Total	100%
<b>-</b> 11 11 1	attractions allocations used for the appropriate of anomalous an acutable stick water

Table 14: Investment strategy allocation used for the calculation of employer contribution rates.

# Appendix 2: Assumptions \_\_\_\_\_

To set and agree assumptions for the valuation, the Fund carried out an in-depth analysis and review in June 2023 with the final assumptions noted by the Pension Fund Committee in September 2023.

## **Financial assumptions**

## Setting employer contribution rates

An asset-liability model was used to set employer contributions at the 2023 valuation. This model relies on Hymans Robertson's proprietary economic model, the Economic Scenario Service (ESS). The ESS reflects the uncertainty associated with future levels of inflation and asset returns and the interactions and correlations between different asset classes and wider economic variables. In the short term (first few years), the models are fitted with current financial market expectations. Over the longer term, models are built around views of fundamental economic parameters, for example equity risk premium, credit spreads and long-term inflation. The table below shows the calibration of the ESS at 31 March 2023. Further information on the assumptions used for contribution rate setting is included in the Funding Strategy Statement.

		Asset class annualised total returns								Inflation/Yields							
Time period	Percentile	UK Equity	Overseas equities	Emerging market equities (unhedged)	Private equity	Property	Infrastructure equity (unlisted)	A Credit (14yr maturity)	Index linked gilt (14yr maturity)	(currency	Absolute return bonds	Multi asset credit (sub inv grade)	Private lending	Cash	Inflation (CPI)	17 year real yield (CPI)	17 year yield
	16th	1.3%	1.4%	-0.8%	0.5%	1.2%	2.4%	2.7%	0.8%	2.5%	2.9%	4.0%	4.8%	2.5%	0.9%	-0.3%	2.7%
10 years	50th	7.5%	7.6%	7.6%	11.4%	6.2%	7.8%	4.3%	2.8%	4.8%	4.3%	5.9%	7.6%	3.6%	2.5%	0.9%	4.1%
youro	84th	13.5%	13.7%	16.2%	22.3%	11.5%	13.2%	5.8%	5.1%	6.8%	5.8%	7.7%	10.3%	4.7%	4.1%	2.2%	5.9%
	16 <sup>th</sup>	3.0%	3.1%	1.4%	3.7%	2.7%	3.9%	3.7%	1.0%	3.7%	2.9%	4.7%	5.7%	2.3%	0.7%	-0.5%	1.4%
20 years	50th	7.5%	7.7%	7.6%	11.4%	6.4%	7.9%	4.7%	2.7%	5.2%	4.4%	6.3%	7.8%	3.7%	2.3%	1.3%	3.4%
youro	84th	12.0%	12.5%	14.2%	19.2%	10.3%	12.0%	5.8%	4.5%	6.6%	6.2%	7.9%	9.8%	5.4%	3.9%	2.9%	5.9%
	16 <sup>th</sup>	3.9%	4.0%	2.8%	5.4%	3.2%	4.5%	3.4%	1.0%	3.6%	2.5%	4.5%	5.7%	1.8%	0.6%	-0.6%	1.2%
40 years	50th	7.4%	7.4%	7.4%	11.0%	6.2%	7.7%	4.4%	2.7%	5.0%	4.3%	6.1%	7.6%	3.5%	2.0%	1.3%	3.3%
youro	84th	10.9%	11.2%	12.4%	16.8%	9.5%	11.1%	5.8%	4.6%	6.5%	6.4%	8.1%	9.7%	5.7%	3.5%	3.2%	6.1%
Vo	olatility (5yr)	18%	18%	26%	30%	15%	15%	6%	7%	8%	3%	6%	9%	2%	3%	-	-

Table 15: ESS individual asset class return distributions at 31 March 2023

# **Calculating the funding level**

Table 16 summarises the assumptions used to calculate the funding level at 31 March 2023, along with a comparison at the last valuation.

Assumption	31 March 2023	Required for	31 March 2020
Discount rate	5.0% pa	To place a 'today's money' value on all the benefits promised to scheme members at the valuation date. The Fund's assets are estimated to have an 80% likelihood of achieving a return that is at least equal the discount rate.	3.0% pa (based on 75% likelihood)
Benefit increases/CARE revaluation	2.7% pa	To determine the size of future benefit payments.	1.9% pa
Salary increases	3.4% pa*	To determine the size of future final-salary linked benefit payments.	2.6% pa*

Table 16: Summary of assumptions used for measuring the funding level, compared to last valuation

<sup>\*</sup>plus a promotional salary scale

# **Demographic assumptions**

The same demographic assumptions are used to set contribution rates and assess the current funding level.

# Longevity

	31 March 2023	31 March 2020
Baseline assumptions	VitaCurves based on member-level lifestyle factors	VitaCurves based on member-level lifestyle factors
Future improvements	CMI 2022 model Initial addition = 0.25% (both Male and Female) Smoothing factor = 7.0 Weighting = 0% (2020 & 2021 data), 25% (2022 data) 1.5% pa long-term rate	CMI 2019 model Initial addition = 0.5% (both Male and Female) Smoothing factor = 7.0 1.5% pa long-term rate of improvement

Table 17: Summary of longevity assumptions at this valuation compared with the previous valuation

# Other demographic assumptions

Death in service	See sample rates in Table 19
Retirements in ill health	See sample rates in Table 19
Withdrawals	See sample rates in Table 19
Promotional salary increases	See sample rates in Table 19
Commutation	75% of future retirements elect to exchange pension for additional tax-free cash up to HMRC limits
50:50 option	0.2% of members (uniformly distributed across the age, service and salary range) will choose the 50:50 option
Retirement age	The earliest age at which a member can retire with their benefits unreduced
Proportion married	A varying proportion of members are assumed to have a dependant at retirement or on earlier death. For example, at age 60 this is assumed to be 85% for males and 60% for females. The dependant of a male member is assumed to be 2 years younger than him and the dependant of a female member is assumed to be 3.5 years older than her.

Table 18: Summary of other demographic assumptions

# Sample rates for demographic assumptions Males

Age	Salary scale	Death before retirement	Withdrawals		efore Withdrawals III h		III healt	h Tier 1	III health Tier 2		
		FT & PT	FT	PT	FT	PT	FT	PT			
20	105	0.21	300.15	482.39	0	0	0	0			
25	117	0.21	198.26	318.64	0.11	0.02	0.13	0.02			
30	131	0.26	140.63	226.02	0.21	0.03	0.23	0.03			
35	144	0.30	109.86	176.56	0.41	0.14	0.46	0.15			
40	154	0.51	88.40	142.07	0.62	0.26	0.69	0.24			
45	164	0.86	51.67	116.25	0.99	0.51	1.09	0.49			
50	174	1.37	40.02	90.05	1.86	1.31	2.59	1.45			
55	179	2.15	38.44	86.50	5.83	4.52	4.67	3.11			
60	184	3.86	34.24	77.04	9.91	6.97	3.87	2.65			
65	185	6.44	0.0	0.0	18.92	13.49	0	0			

#### **Females**

Age	Salary scale	Death before retirement	Withdrawals		III healt	h Tier 1	III healt	h Tier 2
		FT & PT	FT	PT	FT	PT	FT	PT
20	105	0.11	295.54	406.55	0	0	0	0
25	117	0.11	198.81	273.48	0.16	0.13	0.09	0.10
30	131	0.16	166.61	229.19	0.21	0.18	0.12	0.13
35	144	0.27	102.64	197.67	0.41	0.34	0.24	0.25
40	154	0.44	85.37	164.40	0.61	0.51	0.36	0.37
45	164	0.71	70.28	135.34	0.82	0.68	0.48	0.50
50	174	1.04	53.55	103.12	1.50	1.23	1.11	1.13
55	179	1.37	50.09	96.47	5.47	4.43	2.32	2.35
60	184	1.75	40.27	77.56	11.52	9.30	2.38	2.40
65	185	2.25	0.0	0.0	20.73	16.76	0	0

Table 19: Sample rates of male and female demographic assumptions.

Figures are incidence rates per 1,000 members except salary scale. FT and PT denoted full-time and part-time members respectively.

# **Appendix 3: Reliances & limitations**

We have been commissioned by Glasgow City Council ('the Administering Authority') to carry out a full actuarial valuation of Strathclyde Pension Fund ('the Fund') at 31 March 2023, as required under Regulation 60 of the Local Government Pension Scheme (Scotland) Regulations 2018 ('the Regulations').

This report is addressed to the Administering Authority. It has been prepared by us as actuaries to the Fund and is solely for the purpose of summarising the main outcomes of the 2023 actuarial valuation. It has not been prepared for any other third party or for any other purpose. We make no representation or warranties to any third party as to the accuracy or completeness of this report, no reliance should be placed on this report by any third party and we accept no responsibility or liability to any third party in respect of it.

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This summary report is the culmination of other communications in relation to the valuation, in particular:



our <u>2023 valuation toolkit</u> which sets out the methodology used when reviewing funding plans.



our work with the Fund in June and August 2023 to review and set the valuation assumptions.



our work with the Fund in August 2023 to review and set the funding strategy, approved by Pensions Committee in September 2023



our data report which summarises the data used for the valuation, the approach to ensuring it is fit for purpose and any adjustments made to it during the course of the valuation.



the Funding Strategy Statement which details the approach taken to adequately fund the current and future benefits due to members.

The totality of our advice complies with the Regulations as they relate to actuarial valuations.

The following Technical Actuarial Standards apply to this advice and have been complied with where material, and to a proportionate degree. They are:

- TAS100 Principles for technical actuarial work
- TAS300 Pensions

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# Appendix 4: Glossary \_\_\_\_\_

Term	Explanation
50:50 option	An option for LGPS members to pay half contributions and earn half the retirement benefit (pre-retirement protection benefits are unreduced).
Asset-liability modelling	An approach to modelling and understanding risk for a pension fund. The assets and liabilities are projected forwards into the future under many different future scenarios of inflation, investment returns and interest rates. The future scenarios are then analysed to understand the risk associated with a particular combination of contribution rates and investment strategy. Different combinations of contribution rates and/or investment strategies may be tested.
Baseline longevity	The rates of death (by age and sex) in a given group of people based on current observed data.
Club Vita	A firm of longevity experts who Hymans Roberston partner with for longevity analysis. They combine data from thousands of pension schemes and use it to create detailed baseline longevity assumptions at member-level, as well as insights on general longevity trends and future improvements.
Commutation	The option for members to exchange part of their annual pension for a one-off lump sum at retirement. In the LGPS, every £1 of pension exchanged gives the member £12 of lump sum. The amounts that members commute is heavily influenced by tax rules which set an upper limit on how much lump sum can be taken tax-free.
CPI inflation	The annual rate of change of the Consumer Prices Index (CPI). The CPI is the UK government's preferred measure of inflation and is the measure used to increase LGPS (and all other public sector pension scheme) benefits each year.
Deferred pensioner	A former employee who has left employment (or opted out of the pension fund) but is not yet in receipt of their benefits from the fund.
Demographic assumptions	Assumptions concerned with member and employer choices rather than macroeconomic or financial factors. For example, retirement age or promotional salary scales. Demographic assumptions typically determine the timing of benefit payments.

Term	Explanation
Discount rate	An assumption for the annual rate of future investment return. Used to place a single 'today's money' value on a stream of future payments.
Employee members	Members who are currently employed by employers who participate in the Fund and are paying contributions into the Fund.
ESS	Economic Scenario Service - Hymans Robertson's proprietary economic scenario generator used to create thousands of simulations of future inflation, asset class returns and interest rates.
Funding position	The extent to which the assets held by the Fund at 31 March 2023 cover the accrued benefits ie the liabilities. The two measures of the funding position are:  the funding level - the ratio of assets to liabilities; and the funding surplus/deficit - the difference between the asset and liabilities values.
Inflation	Prices tend to increase over time, which is called inflation. Inflation is measured in different ways, using a different 'basket' of goods and mathematical formulas.
Liabilities	An employer's liability value is the single value at a given point in time of all the benefit payments expected to be made in future to all members. Benefit payments are projected using demographic and financial assumptions and the liability is calculated using a discount rate.
Longevity improvements	An assumption about how rates of death will change in future. Typically, we assume that death rates will fall and life expectancies will improve over time, continuing the long-running trend.
Pensioner	A former employee who is in receipt of their benefits from the fund. This category includes eligible dependants of the former employee.
Primary rate	The estimated cost of future benefits, expressed in percentage of pay terms. The primary rate will include an allowance to cover the Fund's expenses.

Term	Explanation
Prudence	To be prudent means to err on the side of caution in the overall set of assumptions. We build prudence into the choice of discount rate by choosing an assumption with a prudence level of more than 50%. All other assumptions aim to be best estimate.
Prudence level	A percentage indicating the likelihood that the assumed rate of investment return will be achieved in practice, based on the ESS model. The higher the prudence level, the more prudent the assumed rate of investment return.
Secondary rate	An adjustment to the primary rate, generally to reflect costs associated with benefits that have already been earned up to the valuation date. This may be expressed as a percentage of pay and/or monetary amount.
Withdrawal	Refers to members leaving the scheme before retirement. These members retain an entitlement to an LGPS pension when they retire but are no longer earning new benefits.

# **Appendix 5: Rates and Adjustments Certificate**

In accordance with Regulation 60(4) of the Regulations, we have assessed the contributions that should be paid into the Fund by participating employers for the period 1 April 2024 to 31 March 2027 to maintain the solvency of the Fund.

The method and assumptions used to calculate the contributions set out in this Rates and Adjustments Certificate are detailed in the Funding Strategy Statement dated March 2024 and in Appendix 2 of the report on the actuarial valuation dated 29 March 2024. These assumptions underpin our estimate of the number of members who will become entitled to a payment of pensions under the provisions of the LGPS and the amount of liabilities arising in respect of such members.

The table below summarises the whole Fund primary and secondary contribution rates for the period 1 April 2024 to 31 March 2027. The primary rate is the payroll weighted average of the underlying individual employer primary rates and the secondary rate is the total of the underlying individual employer secondary rates, calculated in accordance with the LGPS regulations and CIPFA guidance. The secondary rate has been shown both as a monetary amount and an equivalent percentage of the projected pensionable pay.

Craig Alexander FFA

Catherine McFadyen

Catherine McFadyen FFA

29 March 2024

For and on behalf of Hymans Robertson LLP

	This valuation (31 Marc	h 2023)
Primary rate	21	.8% of pay
Secondary rate	Monetary amount	Equivalent to % of payroll
2024/25	-£453,001,000	-15.0%
2025/26	-£472,573,000	-15.1%
2026/27	-£151,585,000	-4.7%

Table 20: Whole fund primary and secondary contribution rates from 1 April 2024 to 31 March 2027

The required minimum contribution rates for each employer in the Fund are set out in the remainder of this certificate.

Sc. Arg	Employer name	Primary rate (% of pay)		Secondary rate (% of pay and monetary amount)			Total contributions (Primary rate)			
			2024/25	2025/26	2026/27	2024/25	2025/26	2026/27		
	Scheduled Bodies with	Tax Raising Powers	5							
	Argyll & Bute Council	23.0%	-16.5%	-16.5%	-5.5%	6.5%	6.5%	17.5%		
	East Ayrshire Council	21.6%	-15.1%	-15.1%	-4.1%	6.5%	6.5%	17.5%		
	North Ayrshire Council	21.8%	-15.3%	-15.3%	-4.3%	6.5%	6.5%	17.5%		
	South Ayrshire Council	21.7%	-15.2%	-15.2%	-4.2%	6.5%	6.5%	17.5%		
	West Dunbartonshire Council	22.0%	-15.5%	-15.5%	-4.5%	6.5%	6.5%	17.5%		
	East Dunbartonshire Council	22.0%	-15.5%	-15.5%	-4.5%	6.5%	6.5%	17.5%		
	Glasgow City Council	22.1%	-15.6%	-15.6%	-4.6%	6.5%	6.5%	17.5%		
	North Lanarkshire Council	22.1%	-15.6%	-15.6%	-4.6%	6.5%	6.5%	17.5%		
	South Lanarkshire Council	21.7%	-15.2%	-15.2%	-4.2%	6.5%	6.5%	17.5%		
	East Renfrewshire Council	22.4%	-15.9%	-15.9%	-4.9%	6.5%	6.5%	17.5%		
	Renfrewshire Council	21.8%	-15.3%	-15.3%	-4.3%	6.5%	6.5%	17.5%		
	Inverclyde Council	22.1%	-15.6%	-15.6%	-4.6%	6.5%	6.5%	17.5%		

Employer code	Employer name	Primary rate (% of pay)					tal contributior ate plus secon		Notes
			2024/25	2025/26	2026/27	2024/25	2025/26	2026/27	
	Colleges and Schedul	ed Bodies without Ta	x Raising Power	'S					
58	South Lanarkshire College	22.3%	-12.9%	-12.9%	-4.8%	9.4%	9.4%	17.5%	
	Glasgow Clyde College	22.6%	-16.1%	-16.1%	-5.1%	6.5%	6.5%	17.5%	
	Glasgow Kelvin College	22.4%	-15.9%	-15.9%	-4.9%	6.5%	6.5%	17.5%	
165	Argyll College	22.7%	-11.4%	-11.4%	-5.2%	11.3%	11.3%	17.5%	
	New College Lanarkshire	22.4%	-15.9%	-15.9%	-4.9%	6.5%	6.5%	17.5%	
	City of Glasgow College	21.5%	-15.0%	-15.0%	-4.0%	6.5%	6.5%	17.5%	
	West College Scotland	22.7%	-16.2%	-16.2%	-5.2%	6.5%	6.5%	17.5%	
	Ayrshire College	22.2%	-14.7%	-14.7%	-4.7%	7.5%	7.5%	17.5%	
801	Strathclyde Partnership for Transport	21.6%	-15.1%	-15.1%	-4.1%	6.5%	6.5%	17.5%	
	Scottish Water	21.4%	-11.2%	-11.2%	-11.2%	10.2%	10.2%	10.2%	
	Scottish Police Authority	21.1%	-14.6%	-14.6%	-3.6%	6.5%	6.5%	17.5%	
	Scottish Fire & Rescue Service	21.6%	-15.1%	-15.1%	-4.1%	6.5%	6.5%	17.5%	

Employer code	Employer name	Primary rate (% of pay)		Secondary rate and monetary	amount)	To (Primary ra	Notes		
			2024/25	2025/26	2026/27	2024/25	2025/26	2026/27	
917	Ayrshire Valuation Joint Board	25.1%	-18.6%	-18.6%	-7.6%	6.5%	6.5%	17.5%	
918	Dunbartonshire & Argyll & Bute Valuation Joint Board	20.9%	-14.4%	-14.4%	-3.4%	6.5%	6.5%	17.5%	
919	Lanarkshire Valuation Joint Board	22.3%	-15.8%	-15.8%	-4.8%	6.5%	6.5%	17.5%	
920	Renfrewshire Valuation Joint Board	21.8%	-15.3%	-15.3%	-4.3%	6.5%	6.5%	17.5%	
	Transferee Admission	Bodies							
261	Kings Theatre Glasgow Ltd	25.8%	-19.3%	-19.3%	-19.3%	6.5%	6.5%	6.5%	
306	Cofely Workplace Limited	32.3%	-32.3%	-32.3%	-32.3%	0.0%	0.0%	0.0%	
307	Amey BPO Services Ltd (Renfrewshire Council)	29.5%	-23.0%	-23.0%	-23.0%	6.5%	6.5%	6.5%	
313	Mitie PFI Ltd (Argyll & Bute Council)	26.2%	-19.7%	-19.7%	-19.7%	6.5%	6.5%	6.5%	
314	Scottish Water Business Stream Ltd	20.6%	-14.1%	-14.1%	-4.9%	6.5%	6.5%	15.7%	
319	BAM Construct UK Ltd (East Renfrewshire Council)	27.8%	-21.3%	-21.3%	-21.3%	6.5%	6.5%	6.5%	

Employer code	Employer name	Primary rate (% of pay)		Secondary rate and monetary			tal contribution ate plus secon		Notes
			2024/25	2025/26	2026/27	2024/25	2025/26	2026/27	
326	Mitie PFI Ltd (South Ayrshire Council)	33.4%	-33.4%	-33.4%	-33.4%	0.0%	0.0%	0.0%	
327	Mitie PFI Ltd (East Ayrshire Council)	28.1%	-28.1%	-28.1%	-28.1%	0.0%	0.0%	0.0%	
329	Mitie PFI Ltd (North Ayrshire Council)	28.8%	-22.3%	-22.3%	-22.3%	6.5%	6.5%	6.5%	
345	City Property (Glasgow) LLP	23.9%	-17.4%	-17.4%	-6.4%	6.5%	6.5%	17.5%	
348	Forth & Oban Ltd	34.5%	-28.0%	-28.0%	-28.0%	6.5%	6.5%	6.5%	
351	BAM Construct UK Ltd (West Dunbartonshire Council)	28.5%	-22.0%	-22.0%	-22.0%	6.5%	6.5%	6.5%	
353	AMEY Public Services LLP (North Lanarkshire)	28.7%	-28.7%	-28.7%	-28.7%	0.0%	0.0%	0.0%	

Employer code	Employer name	Primary rate (% of pay)		Secondary rate and monetary			tal contributior ate plus secon		Notes
			2024/25	2025/26	2026/27	2024/25	2025/26	2026/27	
	Other Admitted Bodies	Open to New Entra	nts						
15	Parkhead Housing Association Ltd	22.8%	-15.1%	-15.1%	-5.3%	7.7%	7.7%	17.5%	
31	RCA Trust	18.2%	-18.2%	-18.2%	-18.2%	0.0%	0.0%	0.0%	
37	Community Central Hall	18.7%	-12.2%	-12.2%	-12.2%	6.5%	6.5%	6.5%	
	Glasgow Caledonian University	21.1%	-14.6%	-14.6%	-3.6%	6.5%	6.5%	17.5%	
71	Reidvale Adventure Playground	24.4%	-17.9%	-17.9%	-6.9%	6.5%	6.5%	17.5%	
77	Scottish Library & Information Council (SLIC)	24.8%	-18.3%	-18.3%	-7.3%	6.5%	6.5%	17.5%	
95	Easterhouse Citizens Advice Bureau	24.8%	-18.3%	-18.3%	-7.3%	6.5%	6.5%	17.5%	
106	Strathclyde Wing Hong Chinese Elderly Group	30.9%	-30.9%	-30.9%	-30.9%	0.0%	0.0%	0.0%	
111	Glasgow East Womens Aid	29.2%	-22.7%	-22.7%	-11.7%	6.5%	6.5%	17.5%	
113	Bridgeton, Calton and Dalmarnock Credit Union	31.9%	-31.9%	-31.9%	-31.9%	0.0%	0.0%	0.0%	
136	Scottish Out of School Care Network	23.6%	-17.1%	-17.1%	-6.5%	6.5%	6.5%	17.1%	

161	Ayr Housing Aid Centre	20.4%	-13.9%	-13.9%	-2.9%	6.5%	6.5%	17.5%	
162	South Ayrshire Energy Agency	20.8%	-10.0%	-10.0%	-3.3%	10.8%	10.8%	17.5%	
167	Ayrshire Housing	25.0%	-10.3%	-10.3%	-7.5%	14.7%	14.7%	17.5%	
169	The Financial Fitness Resource Team	22.5%	-16.0%	-16.0%	-5.0%	6.5%	6.5%	17.5%	
170	Coatbridge Citizens Advice Bureau	29.0%	-22.5%	-22.5%	-11.5%	6.5%	6.5%	17.5%	
177	Coalition for Racial Equality and Rights	23.4%	-18.4%	-18.4%	-18.4%	5.0%	5.0%	5.0%	
180	North Ayrshire Leisure Ltd	20.8%	-14.3%	-14.3%	-3.3%	6.5%	6.5%	17.5%	
185	Wheatley Homes Glasgow Ltd	20.9%	-14.4%	-14.4%	-3.4%	6.5%	6.5%	17.5%	
197	Flourish House	26.0%	-19.5%	-19.5%	-8.5%	6.5%	6.5%	17.5%	
208	Good Shepherd Centre (Dalbeth & St Euphrasia's)	20.5%	-14.0%	-14.0%	-3.0%	6.5%	6.5%	17.5%	
210	Glasgow School of Art	21.2%	-14.7%	-14.7%	-3.7%	6.5%	6.5%	17.5%	
	University of Strathclyde	21.9%	-15.4%	-15.4%	-4.4%	6.5%	6.5%	17.5%	
	SportScotland	20.1%	-13.6%	-13.6%	-2.6%	6.5%	6.5%	17.5%	
	St Mary's Kenmure	22.2%	-15.7%	-15.7%	-4.7%	6.5%	6.5%	17.5%	
219	Royal Conservatoire of Scotland	20.8%	-14.3%	-14.3%	-3.3%	6.5%	6.5%	17.5%	

223	St Philip's School	20.9%	-14.4%	-14.4%	-3.4%	6.5%	6.5%	17.5%	
225	Lanarkshire Housing Association Ltd	22.7%	-16.2%	-16.2%	-5.2%	6.5%	6.5%	17.5%	
230	Potential Living	25.7%	-19.2%	-19.2%	-14.1%	6.5%	6.5%	11.6%	
232	Jordanhill School	22.5%	-16.0%	-16.0%	-5.0%	6.5%	6.5%	17.5%	
	General Teaching Council for Scotland	20.2%	-13.7%	-13.7%	-2.7%	6.5%	6.5%	17.5%	
	College Development Network (CDN)	20.9%	-14.4%	-14.4%	-3.4%	6.5%	6.5%	17.5%	
245	UTHEO Limited	32.6%	-26.1%	-26.1%	-26.1%	6.5%	6.5%	6.5%	
	Scottish Qualifications Authority	21.2%	-14.4%	-14.4%	-3.7%	6.8%	6.8%	17.5%	
249	Inverclyde Leisure	20.6%	-14.1%	-14.1%	-3.1%	6.5%	6.5%	17.5%	
252	South Lanarkshire Leisure and Culture Limited	22.1%	-15.6%	-15.6%	-4.6%	6.5%	6.5%	17.5%	
	Skills Development Scotland	22.9%	-10.9%	-16.4%	-10.9%	12.0%	6.5%	12.0%	
256	Hemat Gryffe Women's Aid	23.0%	-16.5%	-16.5%	-5.5%	6.5%	6.5%	17.5%	
257	Loch Lomond & the Trossachs National Park Authority	22.2%	-12.1%	-12.1%	-12.1%	10.1%	10.1%	10.1%	
258	Govan Law Centre	23.3%	-16.8%	-16.8%	-16.8%	6.5%	6.5%	6.5%	

265	Renfrewshire Leisure Limited	21.1%	-14.6%	-14.6%	-3.6%	6.5%	6.5%	17.5%	
266	East Renfrewshire Carers	29.7%	-23.2%	-23.2%	-23.2%	6.5%	6.5%	6.5%	
269	The Milton Kids D.A.S.H. Club	30.1%	-23.6%	-23.6%	-12.6%	6.5%	6.5%	17.5%	
279	Routes to Work Limited	23.8%	-13.7%	-13.7%	-13.7%	10.1%	10.1%	10.1%	
283	North Lanarkshire Carers Together	26.4%	-19.9%	-19.9%	-8.9%	6.5%	6.5%	17.5%	
288	H.E.L.P. (Argyll & Bute) Ltd	27.0%	-20.5%	-20.5%	-20.5%	6.5%	6.5%	6.5%	
292	Auchenback Active Limited	33.6%	-33.6%	-33.6%	-33.6%	0.0%	0.0%	0.0%	
296	Glasgow Women's Aid	22.4%	-13.0%	-13.0%	-4.9%	9.4%	9.4%	17.5%	
310	Argyll Community Housing Association Ltd	22.3%	-12.1%	-12.1%	-12.1%	10.2%	10.2%	10.2%	
311	City Building (Glasgow) LLP	19.2%	-12.7%	-12.7%	-1.7%	6.5%	6.5%	17.5%	
	Glasgow Life	21.2%	-14.7%	-14.7%	-3.7%	6.5%	6.5%	17.5%	
324	Glasgow City Heritage Trust	18.8%	-12.3%	-12.3%	-1.3%	6.5%	6.5%	17.5%	
331	Regen: FX Youth Trust	20.6%	-10.8%	-10.8%	-3.1%	9.8%	9.8%	17.5%	
335	Clyde Gateway URC	23.5%	-17.0%	-17.0%	-6.0%	6.5%	6.5%	17.5%	
343	Glasgow Credit Union Ltd	20.7%	-12.9%	-12.9%	-3.2%	7.8%	7.8%	17.5%	

352	Seemis Group LLP	21.1%	-14.6%	-14.6%	-3.6%	6.5%	6.5%	17.5%
359	East Dunbartonshire Leisure & Culture Trust	21.2%	-14.7%	-14.7%	-3.7%	6.5%	6.5%	17.5%
	Jobs And Business Glasgow	24.0%	-17.5%	-17.5%	-6.5%	6.5%	6.5%	17.5%
364	West Dunbartonshire Leisure Trust	20.2%	-13.7%	-13.7%	-2.7%	6.5%	6.5%	17.5%
367	North Lanarkshire Properties LLP	24.1%	-17.6%	-17.6%	-6.6%	6.5%	6.5%	17.5%
368	East Ayrshire Leisure Trust	22.2%	-15.7%	-15.7%	-4.7%	6.5%	6.5%	17.5%
369	East Renfrewshire Culture and Leisure Trust	21.8%	-15.3%	-15.3%	-4.3%	6.5%	6.5%	17.5%
374	City Building (Contracts)	19.0%	-12.5%	-12.5%	-1.5%	6.5%	6.5%	17.5%
375	Live Argyll	21.8%	-6.7%	-6.7%	-4.3%	15.1%	15.1%	17.5%
377	Glasgow Colleges Regional Board	19.8%	-2.2%	-2.2%	-2.2%	17.6%	17.6%	17.6%
378	CGI IT UK Limited	23.8%	-17.3%	-17.3%	-6.3%	6.5%	6.5%	17.5%
379	Business Loans Scotland	27.3%	-20.8%	-20.8%	-20.8%	6.5%	6.5%	6.5%
	University of The West of Scotland	21.8%	-15.3%	-15.3%	-4.3%	6.5%	6.5%	17.5%
407	Kibble Education and Care Centre	21.4%	-2.1%	-2.1%	-2.1%	19.3%	19.3%	19.3%

420	CORA Foundation	27.6%	-21.1%	-21.1%	-10.1%	6.5%	6.5%	17.5%	
422	Renfrewshire Carers Centre	25.1%	-18.6%	-18.6%	-7.6%	6.5%	6.5%	17.5%	
509	The Scottish Centre for Children with Motor Impairments	22.3%	-15.8%	-15.8%	-4.8%	6.5%	6.5%	17.5%	
	Other Admitted Bodies (	Closed to New Ent	rants						
5	Glasgow Council for Voluntary Service	22.3%	-15.8%	-15.8%	-15.8%	6.5%	6.5%	6.5%	
30	Glasgow Association for Mental Health	27.1%	-20.6%	-20.6%	-20.6%	6.5%	6.5%	6.5%	
53	Glasgow Film Theatre	30.3%	-23.8%	-23.8%	-23.8%	6.5%	6.5%	6.5%	
	Creative Scotland	23.3%	-16.8%	-16.8%	-16.8%	6.5%	6.5%	6.5%	
194	Sanctuary Scotland Housing Association	28.1%	-21.6%	-21.6%	-21.6%	6.5%	6.5%	6.5%	
200	Equals Advocacy Partnership Mental Health	34.4%	-34.4%	-34.4%	-34.4%	0.0%	0.0%	0.0%	
227	SACRO	23.1%	-16.6%	-16.6%	-16.6%	6.5%	6.5%	6.5%	
231	Lanarkshire Association for Mental Health	29.6%	-23.1%	-23.1%	-23.1%	6.5%	6.5%	6.5%	
	University of Edinburgh	31.5%	-25.0%	-25.0%	-25.0%	6.5%	6.5%	6.5%	
	University of Glasgow	30.5%	-24.0%	-24.0%	-24.0%	6.5%	6.5%	6.5%	

	University of Aberdeen	26.1%	-19.6%	-19.6%	-19.6%	6.5%	6.5%	6.5%	
	University of Dundee	27.0%	-20.5%	-20.5%	-20.5%	6.5%	6.5%	6.5%	
294	Govan Home & Education Link Project (Govan H.E.L.P.)	18.5%	-18.5%	-18.5%	-18.5%	0.0%	0.0%	0.0%	
328	River Clyde Homes	20.1%	-13.6%	-13.6%	-13.6%	6.5%	6.5%	6.5%	
340	Shettleston Housing Association	25.1%	-18.6%	-18.6%	-18.6%	6.5%	6.5%	6.5%	
341	Cassiltoun Housing Association	25.2%	-18.7%	-18.7%	-18.7%	6.5%	6.5%	6.5%	
344	Glasgow West Housing Association	21.7%	-15.2%	-15.2%	-15.2%	6.5%	6.5%	6.5%	
350	Queen's Cross Housing Association	20.0%	-13.5%	-13.5%	-13.5%	6.5%	6.5%	6.5%	
354	Govanhill Housing Association	22.7%	-16.2%	-16.2%	-16.2%	6.5%	6.5%	6.5%	
356	New Gorbals Housing Association	19.9%	-13.4%	-13.4%	-13.4%	6.5%	6.5%	6.5%	
357	North Glasgow Housing Association	23.2%	-16.7%	-16.7%	-16.7%	6.5%	6.5%	6.5%	
358	Southside Housing Association	24.7%	-18.2%	-18.2%	-18.2%	6.5%	6.5%	6.5%	
361	Milnbank Housing Association	28.4%	-21.9%	-21.9%	-21.9%	6.5%	6.5%	6.5%	
362	Maryhill Housing Association	19.1%	-12.6%	-12.6%	-12.6%	6.5%	6.5%	6.5%	

363	Tollcross Housing Association	25.2%	-18.7%	-18.7%	-18.7%	6.5%	6.5%	6.5%
372	Scottish Canals	26.8%	0.1%	0.1%	0.1%	26.9%	26.9%	26.9%
376	Enable Glasgow	33.3%	-33.3%	-33.3%	-33.3%	0.0%	0.0%	0.0%
	Sodexo	23.2%	-16.7%	-16.7%	-16.7%	6.5%	6.5%	6.5%
382	ISS Ltd	32.7%	-26.2%	-26.2%	-26.2%	6.5%	6.5%	6.5%
410	Engage Renfrewshire	24.4%	-17.9%	-17.9%	-17.9%	6.5%	6.5%	6.5%
609	Scottish Maritime Museum Trust	38.3%	£5,000	£5,000	£5,000	38.3% plus £5,000	38.3% plus £5,000	38.3% plus £5,000
384	Atalian Servest	29.1%	0.0%	0.0%	0.0%	29.1%	29.1%	29.1%

# **Notes to the Rates & Adjustments Certificate**

- Contributions expressed as a percentage of payroll should be paid into the Fund at a frequency in accordance with the requirements of the Regulations.
- Further sums should be paid to the Fund to meet the costs of any early retirements and/or augmentations using methods and factors issued by us from time to time or as otherwise agreed.
- Payments may be required to be made to the Fund by employers to meet the capital costs of any ill-health retirements that exceed those allowed for within our assumptions. If an employer has ill health liability insurance in place with a suitable insurer and provides satisfactory evidence to the Administering Authority, then their certified contribution rate may be reduced by the value of their insurance premium, for the period the insurance is in place.
- The certified contribution rates represent the minimum level of contributions to be paid. Employing authorities may pay further amounts at any time and future periodic contributions may be adjusted on a basis approved by the Fund Actuary.
- The monetary contributions set out in the certificate above can be prepaid in advance with appropriate adjustments for interest as and when agreed with the Administering Authority. Under these circumstances a revised Rates and Adjustments certificate may be issued reflecting any advance payment.

# Appendix 6: Section 13 dashboard (draft)

Metric		2023 Valuation	
2023 funding position – local funding basis			
Funding level (assets/liabilities)	%	147%	
Funding level (change since previous valuation)		41% increase	
Asset value used at the valuation	£m	27,872	
Value of liabilities (including McCloud liability)	£m	18,970	
Surplus (deficit)	£m	8,902	
Discount rate (past service)	% pa	5.0%	
Discount rate (future service)	% pa	Past service and future service are consistently valued with the same underlying assumptions, methodologies, and models regarding future expected levels of inflation, interest rates and investment returns.	
Assumed pension increase (CPI)	% pa	2.7%	
Method of derivation of discount rate, plus any changes since previous valuation		There is an 80% likelihood that the Fund's assets will return at least 5.0% over the 13 years following the 2023 valuation date.  The same methodology was used for the 2020 valuation, although a 75% likelihood was used.	

Metric	Unit	2023 Valuation			
Assumed life expectancy at age 65					
Life expectancy for current pensioners – men age 65	Years	19.8			
Life expectancy for current pensioners – women age 65	Years	22.5			
Life expectancy for future pensioners – men age 45	Years	20.6			
Life expectancy for future pensioners – women age 45	Years	24.2			
Past service funding position – SAB basis (for comparison purposes only)					
Market value of assets	£m	27,872			
Value of liabilities	£m	19,557			
Funding level on SAB basis (assets/liabilities)	%	143%			
Funding level on SAB basis (change since last valuation)	%	9%			

Metric	Unit	2023 Valuation	2020 Valuation		
Contribution rates payable					
Primary contribution rate	% of pay	21.8%	26.7%		
Secondary contribution rate (cash amounts in each year in line with CIPFA guidar	nce)				
1st year of rates and adjustments certificate	£m	-453.001	-177.678		
2 <sup>nd</sup> year of rates and adjustments certificate	£m	-472.573	-182.371		
3 <sup>rd</sup> year of rates and adjustments certificate	£m	-151.585	-187.188		
Giving total expected contributions					
1 <sup>st</sup> year (£ figure based on assumed payroll)	£m	205.435	490.490		
2 <sup>nd</sup> year (£ figure based on assumed payroll)	£m	208.574	503.447		
3 <sup>rd</sup> year (£ figure based on assumed payroll)	£m	553.054	516.745		
Assumed payroll (cash amounts in each year)					
1 <sup>st</sup> year rates and adjustments certificate	£m	3,015.925	2,502.502		
2 <sup>nd</sup> year rates and adjustments certificate	£m	3,119.947	2,568.606		
3 <sup>rd</sup> year rates and adjustments certificate	£m	3,227.558	2,636.455		
Three-year average	% of pay	10.2%	19.6%		
Average employee contribution	% of pay	6.1%	6.2%		
Employee contribution rate (£ figure based on assumed payroll of £3,016m)	£m pa	185	155		

Metric	Unit	2023 Valuation	2020 Valuation
Deficit recovery and surplus spending plan			
Latest deficit recovery period end date, where this methodology is used by the fund's actuarial advisor.	Year	Methodology not used	Methodology not used
Earliest surplus spreading period end date, where this methodology is used by the fund's actuarial advisor.	Year	Methodology not used	Methodology not used
The time horizon end date, where this methodology is used by the fund's actuarial advisor	Year	2036	2033
The funding plan's likelihood of success, where this methodology is used by the fund's actuarial advisor.	%	91%	71%
Percentage of liabilities relating to employers with deficit recovery periods of longer than 20 years	%	0%	0%
Additional information			
Percentage of total liabilities that are in respect of Tier 3 employers	%	6%	6%
Included climate change analysis/comments in the 2023 valuation report		Yes	Not applicable
Value of McCloud liability in the 2023 valuation report (on local funding basis)	£m	122	Not applicable