# **Public Service Pension Plan**

Financial Statements Year Ended December 31, 2023

# Independent Auditor's Report

To the PSPP Corporation Board of Directors



Report on the Financial Statements

### **Opinion**

I have audited the financial statements of the Public Service Pension Plan, which comprise the statement of financial position as at December 31, 2023, and the statements of changes in net assets available for benefits, and changes in pension obligation for the year then ended, and notes to the financial statements, including a summary of significant accounting policies.

In my opinion, the accompanying financial statements present fairly, in all material respects, the financial position of the Public Service Pension Plan as at December 31, 2023, and the changes in net assets available for benefits, and changes in its pension obligations for the year then ended in accordance with Canadian accounting standards for pension plans.

# **Basis for opinion**

I conducted my audit in accordance with Canadian generally accepted auditing standards. My responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audit of the Financial Statements* section of my report. I am independent of the Public Service Pension Plan in accordance with the ethical requirements that are relevant to my audit of the financial statements in Canada, and I have fulfilled my other ethical responsibilities in accordance with these requirements. I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my opinion.

#### Other information

Management is responsible for the other information. The other information comprises the information included in the *Annual Report*, but does not include the financial statements and my auditor's report thereon. The *Annual Report* is expected to be made available to me after the date of this auditor's report.

My opinion on the financial statements does not cover the other information and I do not express any form of assurance conclusion thereon.

In connection with my audit of the financial statements, my responsibility is to read the other information identified above and, in doing so, consider whether the other information is materially inconsistent with the financial statements or my knowledge obtained in the audit, or otherwise appears to be materially misstated.

If, based on the work I will perform on this other information, I conclude that there is a material misstatement of this other information, I am required to communicate the matter to those charged with governance.

# Responsibilities of management and those charged with governance for the financial statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with Canadian accounting standards for pension plans, and for such internal control as management determines is necessary to enable the preparation of the financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the Public Service Pension Plan's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless an intention exists to liquidate or to cease operations, or there is no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the Public Service Pension Plan's financial reporting process.

### Auditor's responsibilities for the audit of the financial statements

My objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes my opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with Canadian generally accepted auditing standards will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with Canadian generally accepted auditing standards, I exercise professional judgment and maintain professional skepticism throughout the audit. I also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for my opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Public Service Pension Plan's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Public Service Pension Plan's ability to continue as a going concern. If I conclude that a material uncertainty exists, I am required to draw attention in my auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify my opinion. My conclusions are based on the audit evidence obtained up to the date of my auditor's report. However, future events or conditions may cause the Public Service Pension Plan to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

I communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that I identify during my audit.

[Original signed by W. Doug Wylie FCPA, FCMA, ICD.D] Auditor General

May 14, 2024 Edmonton, Alberta

# Statement of Financial Position

As at December 31, 2023

(in thousands)

	2023	2022
Net assets available for benefits		
Assets		
Cash (Note 2b)	\$ 11,558	\$ 15,490
Investments (Note 3)	18,430,248	17,074,432
Contributions receivable		
Employers	10,934	11,059
Employees	10,890	10,882
Accounts receivable	9,353	11,871
Total Assets	18,472,983	17,123,734
Liabilities		
Accounts payable	13,167	7,192
Total Liabilities	13,167	7,192
Net assets available for benefits	\$ 18,459,816	\$ 17,116,542
Pension obligation and surplus		
Pension obligation (Note 5)	\$ 13,917,316	\$ 12,857,821
Surplus (Note 6)	4,542,500	4,258,721
Pension obligation and surplus	\$ 18,459,816	\$ 17,116,542

The accompanying notes are part of these financial statements.

Approved by the Board: Approved by the Board:

[Original signed by]
David Lardner
Liliana Cordeiro

Chair of the Corporate Board Chair of Finance Audit Committee

# Statement of Changes in Net Assets Available for Benefits

Year ended December 31, 2023

(in thousands)

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	2023		2022	
Increase in assets				
Contributions (Note 7)				
Employers	\$ 260,760	\$	287,703	
Employees	261,278		283,081	
Investment income (Note 8)				
Income	1,381,003		1,394	
Change in fair value	311,795		-	
Interest income (Note 2b)	1,779		614	
Transfers from other plans	17,721		5,213	
	2,234,336		578,005	
Decrease in assets				
Benefit payments (Note 10)	692,393		680,564	
Transfers to other plans	52,136		13,164	
Investment expenses (Note 11)	131,710		108,805	
Investment loss (Note 8)				
Change in fair value	-		703,188	
Administrative expenses (Note 12)	14,823		14,151	
	891,062		1,519,872	
Increase (Decrease) in net assets	1,343,274		(941,867)	
Net assets available for benefits at beginning of year	17,116,542		18,058,409	
Net assets available for benefits at end of year	\$ 18,459,816	\$	17,116,542	

The accompanying notes are part of these financial statements.

# Statement of Changes in Pension Obligation

Year ended December 31, 2023

(in thousands)

	2023	2022
Increase in pension obligation		
Interest accrued on opening pension obligation	\$ 824,907	\$ 786,486
Net loss due to actuarial assumption changes (Note 5a)	477,568	-
Benefits earned	410,633	410,810
Experience losses (Note 5b)	94,871	207,104
	1,807,979	1,404,400
Decrease in pension obligation		
Benefits payments and transfers to other plans	744,529	690,132
Experience gains (Note 5b)	3,955	281,229
Net gain due to actuarial assumption changes (Note 5a)	-	1,045,148
	748,484	2,016,509
Net increase (decrease) in pension obligation	1,059,495	(612,109)
Pension obligation at beginning of year	12,857,821	13,469,930
Pension obligation at end of year (Note 5)	\$ 13,917,316	\$ 12,857,821

The accompanying notes are part of these financial statements.

# Notes to the Financial Statements

Year ended December 31, 2023

(All dollar amounts in thousands, unless otherwise noted)

#### NOTE 1. SUMMARY DESCRIPTION OF THE PLAN

The following description of the Public Service Pension Plan (the Plan) is a summary only. For a complete description of the Plan, reference should be made to the Public Service Pension Plan text document. Unless otherwise stated, all terms that are not defined below have the meaning prescribed to them in the Plan. Should anything in Note 1 or the financial statements conflict with the plan rules and applicable legislation, those plan rules and applicable legislation shall apply.

#### a. GENERAL

The Plan is a defined benefit pension plan for eligible employees of the Province of Alberta, approved provincial agencies, public bodies and other entities.

The Plan is a registered pension plan (registration number 0208769) as defined in the *Income Tax Act*. The Plan is also registered under the *Employment Pension Plans Act* (Alberta) (EPPA). Other provincial legislation having application to the Plan includes the *Joint Governance of Public Sector Pension Plans Act* (Alberta) (Joint Governance Act), the *Exemption (Public Sector Pension) Regulation AR 3/2019*, and the *Employment Pensions Plans Regulation AR 154/2014* (EPPR).

The Plan is governed by the PSPP Sponsor Board and PSPP Corporation. The PSPP Sponsor Board has certain statutory functions with respect to the Plan under the Joint Governance Act, including making and amending plan text, setting contribution rates, and establishing a funding policy. PSPP Corporation is the administrator of the Plan for all purposes of the EPPA, legal trustee of the Plan fund, and management for the purpose of these financial statements.

### b. PLAN FUNDING

The Plan is subject to the jointly sponsored plan funding rules of the EPPA and is exempted from the EPPA's solvency funding requirements. Current service costs and any actuarial deficiency (see Note 13) are funded equally by employers and members at contribution rates, which together with investment earnings, are expected to provide the payment of all benefits payable under the Plan. The member contribution rates in effect at December 31, 2023 were 8.30% (2022: 9.60%) of pensionable earnings up to the Year's Maximum Pensionable Earnings (YMPE) and 11.90% (2022: 13.70%) of pensionable earnings over the YMPE, with matching contributions by employers.

Pensionable earnings are subject to an upper limit (the salary cap) to ensure the pension accrual is not greater than the maximum pension benefit limit allowed under the *Income Tax Act*. In 2023, the YMPE was \$66,600 (2022: \$64,900) and the salary cap was \$195,313 (2022: \$190,470).

The contribution rates were reviewed in 2022 and are to be reviewed at least once every three years based on recommendations of the Plan's actuary. Contribution rates remain the same effective January 1, 2024.

# c. RETIREMENT BENEFITS

A member is vested for a retirement benefit when they have at least two years of combined pensionable service, or immediately if they are an active participant in the Plan on or after attaining age 65.

The Plan provides for a pension based on a formula that considers a vested member's pensionable salary and years of pensionable service. The pensionable salary used is referred to as the member's highest average salary and is calculated by taking the average of the five consecutive years where the member's pensionable salary was the highest. A salary cap applies to the calculation of highest average salary for benefits on service after 1991 to comply with limits under the *Income Tax Act*. The years of pensionable service used include the total years of pensionable service a member has accumulated in PSPP. A member cannot accumulate more than a maximum of 35 years of combined pensionable service. The member's highest average salary up to the average YMPE over the same period (matching average YMPE) is multiplied by 1.4% for each year of pensionable service. The member's highest average salary above the matching average YMPE is multiplied by 2.0% for each

year of pensionable service. The two amounts are added together to calculate the member's annual unreduced pension. Unreduced pensions are payable to members who have attained age 65 or have attained age 55 and the sum of their age and years of combined pensionable service equals 85. Vested members may retire and collect a pension as early as age 55 with their pensions being reduced if the sum of their age and years of combined pensionable service is less than 85.

#### d. DISABILITY PENSIONS

Unreduced pensions may be payable to vested members who become totally disabled and retire early. Reduced pensions may be payable to vested members who become partially disabled and retire early.

Individuals who became members after June 30, 2007 and have no combined pensionable service prior to July 1, 2007 are not entitled to disability pensions.

#### e. DEATH BENEFITS

Death benefits are payable on the death of a member.

If a vested member dies prior to commencing to receive a pension and has a surviving pension partner entitled to a death benefit, the surviving pension partner may choose to receive either a survivor pension or a lump sum payment. For a beneficiary, other than a pension partner or where the member is not vested, a lump sum payment must be chosen.

If the member is vested and dies after commencing to receive a pension, the death benefit will depend on the pension option selected at retirement and can include a lifetime pension payable to a surviving pension partner, or a monthly pension or lump-sum benefit payable to the surviving beneficiary(ies) based on any remaining guaranteed period.

#### f. TERMINATION BENEFITS AND REFUNDS TO MEMBERS

Vested members who terminate prior to their 55<sup>th</sup> birthday may choose to withdraw their funds from the Plan and receive a lump sum payment equal to the commuted value of their pension, with the commuted value being subject to the EPPA's "locking-in provisions". If the member's contributions with interest, excluding contributions for wholly member-funded service, exceed more than 100% of the commuted value, the excess contributions with interest are refunded as taxable cash. Alternatively, the vested member may elect to receive a deferred pension which is also subject to the applicable excess rule. Members who elected or were deemed to have elected to receive a deferred pension are pensionable after they have reached age 55. Members who are not vested when they terminate receive a refund of the employee paid portion of their contributions with interest. These payments are included as benefit payments on the statement of changes in net assets available for benefits.

#### g. PURCHASED SERVICE AND TRANSFERS

The Plan allows for the purchase of certain eligible periods of service and for the transfer of entitlements into the Plan under various transfer agreements with other pension plans. All elective service purchases are to be cost-neutral to the Plan. The actuarial present value of pension entitlements is paid when service is transferred out of the Plan under a transfer agreement. The cost to recognize service transferred into the Plan under a transfer agreement is the actuarial present value of the benefits that will be created as a result of the transfer.

#### h. COST OF LIVING ADJUSTMENTS (COLA)

Pensions in pay and deferred pensions are increased each year on January 1st by an amount equal to 60% of the increase in the Alberta Consumer Price Index. The increase is based on the increase during the twelve-month period ending on October 31 in the previous year.

#### NOTE 2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND REPORTING PRACTICES

#### a. BASIS OF PRESENTATION

These financial statements are prepared on the going concern basis in accordance with Canadian accounting standards for pension plans. International Financial Reporting Standards (IFRS) is used for accounting policies that do not relate to the Plan's investment portfolio or pension obligation. The statements provide information about the net assets available in the Plan to meet future benefit payments and are prepared to assist Plan members and others in reviewing the activities of the Plan for the year.

#### b. CASH

Cash includes deposits in the plan's administration bank account. The funds in this account are used for operational and pension benefits disbursements. Interest earned on cash is recorded on an accrual basis as Interest income.

#### c. VALUATION OF INVESTMENTS

Investments are recorded at fair value. As disclosed in Note 3, the Plan's investments consist primarily of direct ownership in units of pooled investment funds ("the pools"). The pools are established by Ministerial Order 16/2014, being the Establishment and Maintenance of Pooled Funds, pursuant to the *Financial Administration Act* of Alberta, Chapter F-12, Section 45, and the *Alberta Investment Management Corporation Act* of Alberta, Chapter A-26 .5, Section 15 and 20. Participants in pools include government and non-government funds and plans.

Contracts to buy and sell financial instruments in the pools are between Alberta Investment Management Corporation (AIMCo), a Crown corporation within the Ministry of Treasury Board and Finance, and the third party to the contracts. Participants in the pools are not party to the contracts and have no control over the management of the pool and the selection of securities in the pool. AIMCo controls the creation of the pools and the management and administration of the pools including security selection. Accordingly, the Plan does not report the financial instruments of the pools on its statement of financial position.

The Plan becomes exposed to the financial risks and rewards associated with the underlying financial instruments in a pool when it purchases units issued by the pools and loses its exposure to those financial risks and rewards when it sells its units. The Plan reports its share of the financial risks in Note 4.

The fair value of units held by the Plan is derived from the fair value of the underlying financial instruments held by the pools as determined by AIMCo (see Note 3b). Investments in units are recorded in the Plan's accounts. The underlying financial instruments are recorded in the accounts of the pools. The pools have a market-based unit value that is used to distribute income to the pool participants and to value purchases and sales of the pool units. The pools include various financial instruments such as bonds, equities, real estate, derivatives, investment receivables and payables and cash.

Investments in pool units are recorded in the Plan's accounts on a trade date basis. All purchases and sales of the pool units are in Canadian dollars.

Fair value is the amount of consideration agreed upon in an arm's length transaction between knowledgeable, willing parties who are under no compulsion to act.

#### d. INVESTMENT INCOME

Investment income is recorded on an accrual basis.

Investment income is reported in the statement of changes in net assets available for benefits and in Note 8 and includes the following items recorded in the Plan's accounts:

- Income distributions from the pools, based on the Plan's pro-rata share of total units issued by the pools; and
- ii. Changes in fair value of units including realized gains and losses on disposal of units and unrealized gains and losses on units determined on an average cost basis.

#### e. INVESTMENT EXPENSES

Investment expenses include all amounts incurred by the Plan to earn investment income (see Note 11). Investment expenses are recorded on an accrual basis. Transaction costs are expensed as they are incurred.

#### f. VALUATION OF PENSION OBLIGATION

The value of the pension obligation and changes therein during the year are based on an actuarial valuation prepared by an independent firm of actuaries. The valuation is made at least every three years and results from the most recent valuation are extrapolated, on an annual basis, to year-end. The valuation uses the projected benefit method pro-rated on service and PSPP Corporation's best estimate, as at the measurement date, of various economic and non-economic assumptions.

#### a. MEASUREMENT UNCERTAINTY

In preparing these financial statements, estimates and assumptions are used in circumstances where the actual values are unknown. Uncertainty in the determination of the amount at which an item is recognized in the financial statements is known as measurement uncertainty. Such uncertainty exists when there is a variance between the recognized amount and another reasonably possible amount, as there is whenever estimates are used.

Measurement uncertainty exists in the valuation of the Plan's pension obligation, private investments, hedge funds, real estate and renewable pools. Uncertainty arises because:

- the Plan's actual experience may differ, perhaps significantly, from assumptions used in the extrapolation of the Plan's pension obligation, and
- ii. the estimated fair values of the Plan's private investments, hedge funds, real estate and renewable pools may differ significantly from the values that would have been used had a ready market existed for these investments.
- iii. the current economic environment has significant market volatility stemming from high global inflation rates and rising interest rates. Increases in long-term interest rates that accompany higher inflation will results in an improvement in the funded position of the Plan, at least in the short-term.

While best estimates have been used in the valuation of the Plan's pension obligation, private investments, hedge funds, real estate and renewable investments, management considers that it is possible, based on existing knowledge, that changes in future conditions in the short term could require a material change in the recognized amounts.

Differences between actual results and expectations in the Plan's pension obligation are disclosed as assumption or other changes and net experience gains or losses in the statement of changes in pension obligation in the year when actual results are known.

Differences between the estimated fair values and the amount ultimately realized for investments are included in net investment income in the year when the ultimate realizable values are known.

#### h. INCOME TAXES

The Plan is a registered pension plan, as defined by the *Income Tax Act* (Canada) and, accordingly, is not subject to income taxes.

# NOTE 3. INVESTMENTS

The Plan's investments are managed at the asset class level for purposes of evaluating the Plan's risk exposure and investment performance against PSPP Corporation approved benchmarks based on fair value. AIMCo invests the Plan's assets in accordance with the Statement of Investment Policies and Procedures (SIPP) established by PSPP Corporation and updated on October 1, 2023. The fair value of the pool units is based on the Plan's share of the net asset value of the pooled fund. The pools have a market-based unit value that is used to allocate income to participants of the pool and to value purchases and sales of pool units. AIMCo is delegated authority to independently purchase and sell securities in the pools and Plan, and units of the pools, within the ranges approved for each asset class (see Note 4).

(in thousands)

	Fair Value Hierarchy (a)							
			2023			2022		
Asset Class	Level 2	Level 3	Fair Value	Level 2	Level 3	Fair Value		
Fixed income								
Money market	\$ 16,766 \$	- \$	16,766	13,327 \$	- \$	13,327		
Bonds, mortgages and								
private debt	2,085,846	1,746,138	3,831,984	1,370,911	1,605,320	2,976,231		
	2,102,612	1,746,138	3,848,750	1,384,238	1,605,320	2,989,558		
Equities								
Canadian	953,844	-	953,844	868,017	-	868,017		
Global developed	4,266,188	44,090	4,310,278	6,211,447	46,526	6,257,973		
Emerging market	3,261,952	-	3,261,952	1,353,716	-	1,353,716		
	8,481,984	44,090	8,526,074	8,433,180	46,526	8,479,706		
Alternatives								
Real estate	-	2,424,140	2,424,140	-	2,527,909	2,527,909		
Infrastructure	7	2,115,392	2,115,399	7	1,871,401	1,871,408		
Renewables	-	383,401	383,401	-	303,305	303,305		
Private equity	-	1,102,068	1,102,068	1	876,364	876,365		
	7	6,025,001	6,025,008	8	5,578,979	5,578,987		
Strategic and currency								
investments*	2,938	27,478	30,416	-	26,181	26,181		
Total Investments	\$10,587,541 \$	7,842,707 \$	18,430,248	9,817,426 \$	7,257,006 \$	17,074,432		

<sup>\*</sup> This asset class is not listed separately in the SIPP as it relates to strategic investments and currency overlays made on an opportunistic and discretionary basis (see Note 4).

#### a. FAIR VALUE HIERARCHY:

The quality and reliability of information used to estimate the fair value of investments is classified according to the following fair value hierarchy with level 1 being the highest quality and reliability.

- Level 1 fair value is based on quoted prices in an active market. Although the pools may ultimately hold publicly traded listed equity investments, the pool units themselves are not listed in an active market and therefore cannot be classified as Level 1 for fair value hierarchy purposes. Pool units classified by the Plan as Level 2 may contain investments that might otherwise be classified as Level 1.
- **Level 2** fair value is estimated using valuation techniques that make use of market-observable inputs other than quoted market prices. This level includes pool units that hold public equities, debt securities and derivative contracts totaling \$10,587,541 (2022: \$9,817,426).
- Level 3 fair value is estimated using inputs based on non-observable market data. This level
  includes pool units that hold private mortgages, hedge funds, private equities, real estate,
  infrastructure, and renewable investments totaling \$7,842,707 (2022: \$7,257,006).

#### **Reconciliation of Level 3 Fair Value Measurement**

(in thousands)

	2023	2022
Balance at beginning of year	\$ 7,257,006	\$ 5,586,806
Investment income *	151,271	400,965
Purchases of Level 3 pooled fund units	691,881	1,709,354
Sale of Level 3 pooled fund units	(257,451)	(440,119)
Balance at end of year	\$ 7,842,707	\$ 7,257,006

<sup>\*</sup> Investment income includes unrealized gains of \$388,674 (2022: \$157,384)

#### b. VALUATION OF FINANCIAL INSTRUMENTS RECORDED BY AIMCO IN THE POOLS

The methods used to determine the fair value of investments recorded in the pools are explained in the following paragraphs:

- Fixed income: Public interest-bearing securities are valued at the year-end closing sale price or
  the average of the latest bid and ask prices quoted by an independent securities valuation
  company. Private mortgages are valued based on the net present value of future cash flows
  discounted using appropriate interest rate premiums over similar Government of Canada
  benchmark bonds trading in the market. Private debt and loans are valued similar to private
  mortgages.
- **Equities:** Public equities are valued at the year-end closing sale price or the average of the latest bid and ask prices quoted by an independent securities valuation company. The fair value of hedge fund investments is estimated by external managers. The fair value of private equities is estimated by managers or general partners of private equity funds, pools and limited partnerships. Valuation methods for private equities may encompass a broad range of approaches. The cost approach is used to value companies without either profits or cash flows.
- Alternatives: The estimated fair value of private real estate investments is reported at the most
  recent appraised value, net of any liabilities against the real property. Real estate properties are
  appraised annually by qualified external real estate appraisers. Appraisers use a combination of
  methods to determine fair value including replacement cost, direct comparison, direct capitalization
  of earnings and discounted cash flows. The fair value of renewable investments is appraised
  annually by independent third-party evaluators. Infrastructure investments are valued similar to
  private equity investments. Established private companies are valued using the fair market value
  approach reflecting conventional valuation methods including discounted cash flows and earnings
  multiple analysis.
- Strategic and currency investments: For tactical asset allocations, investments in derivative
  contracts provides overweight or underweight exposure to global equity and bond markets,
  including emerging markets. Currency investments consist of directly held currency forward and
  spot contracts.
- **Foreign currency**: Foreign currency transactions in pools are translated into Canadian dollars using average rates of exchange. At year end, the fair value of investments in other assets and liabilities denominated in a foreign currency are translated at the year-end exchange rates.
- Derivative contracts: The carrying value of derivative contracts in a favourable and unfavourable position is recorded at fair value and is included in the fair value of the pools (see Note 4f). The estimated fair value of equity and bond index swaps is based on changes in the appropriate market-based index net of accrued floating rate interest. Interest rate swaps and cross-currency interest rate swaps are valued based on discounted cash flows using current market yields and exchange rates. Credit default swaps are valued based on discounted cash flows using current market yields and calculated default probabilities. Forward foreign exchange contracts are valued based on difference between contractual foreign exchange rates and foreign exchange forward rate. Future contracts are valued based on quoted market prices. Options to enter into interest rate swap contracts are valued based on discounted cash flows using current market yields and volatility parameters which measure changes in the underlying swap. Warrants and rights are valued at the year-end closing sale price or the average of the latest bid and ask prices quoted by an independent securities valuation company.
- Repurchase agreements: The Plan has exposure to repurchase agreements through its
  investments in fixed income pools. A repurchase agreement can be thought of as a collateralized
  loan. Repurchase agreements are commonly used to provide short-term liquidity. The lender
  provides cash to the borrower (the Plan) in exchange for a security, which acts as collateral. At a
  future date, the borrower repurchases the same security plus accrued interest. The Plan's
  exposure to repurchase agreements as of December 31, 2023, was \$1,025,292 (2022: \$712,890).

#### NOTE 4. INVESTMENT RISK MANAGEMENT

The plan is exposed to financial risks associated with the underlying securities held in the pooled investment funds created and managed by AIMCo. These financial risks include credit risk, market risk and liquidity risk. Credit risk relates to the possibility that a loss may occur from the failure of another party to perform according to the terms of a contract.

Market risk is comprised of currency risk, interest rate risk and price risk. Liquidity risk is the risk the Plan will not be able to meet its obligations as they fall due.

The investment policies and procedures of the Plan are clearly outlined in the SIPP. The purpose of the SIPP is to ensure the Plan is invested and managed in a prudent manner in accordance with current, accepted governance practices incorporating an appropriate level of risk. The Plan's return-risk trade-off is managed through asset class diversification, target ranges on each asset class, diversification within each asset class, quality constraints on fixed income instruments and restrictions on amounts exposed to countries designated as emerging markets. Forward foreign exchange contracts may be used to manage currency exposure in connection with securities purchased in a foreign currency (see Note 4b).

Actuarial liabilities of the Plan are primarily affected by the long-term real rate of return expected to be earned on investments. To meet long term liabilities, PSPP's portfolio is diversified across asset classes as identified in the SIPP, including private investments. Given the illiquid nature of private investments, full deployment to target allocations is carried out over multiple years. A formal transition plan is in place to fill the private market allocations. The following target policy asset mix is in effect as of December 31, 2023:

Actual Asset M
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Asset Class	Target Asset Policy Mix (a)		2023		2022
		(in thousands)	%	(in thousands)	%
Fixed income	21%	\$ 3,848,750	20.9	\$ 2,989,558	17.5
Equities	44%	8,526,074	46.3	8,479,706	49.7
Alternatives	35%	6,025,008	32.7	5,578,987	32.7
Strategic and currency investments	(b)	30,416	0.1	26,181	0.1
		\$ 18,430,248	100.0	\$ 17,074,432	100.0

<sup>(</sup>a) While the portfolio is in transition to the new asset mix, actual investments may be outside the ranges for each Asset Class outlined in the SIPP.

<sup>(</sup>b) In accordance with the SIPP, AIMCo may invest up to 3% of the fair value of the Plan's investments in strategic investments that are outside of the asset classes listed above. AIMCo may, at its discretion, invest the funds in currency overlays.

#### a. CREDIT RISK

#### Debt securities

The Plan is indirectly exposed to credit risk associated with the underlying debt securities held in the pools managed by AlMCo. Counterparty credit risk is the risk of loss arising from the failure of a counterparty to fully honour its financial obligations. The credit quality of financial assets is generally assessed by reference to external credit ratings. The credit rating of a debt security may be impacted by the overall credit rating of the counterparty, the seniority of the debt issue, bond covenants, maturity distribution and other factors.

Credit risk can also lead to losses when issuers and debtors are downgraded by credit rating agencies usually leading to a fall in the fair value of the counterparty's obligations. Credit risk exposure for financial instruments is measured by the positive fair value of the contractual obligations with counterparties. The fair value of all investments reported in Note 3 is directly or indirectly impacted by credit risk to some degree. The majority of investments in debt securities have credit ratings considered to be investment grade.

Unrated debt securities consist primarily of mortgages and private debt placements.

The following table summarizes the Plan's investment in debt securities by credit rating at December 31, 2023:

Credit Rating
Investment Grade (AAA to BBB-)
Speculative Grade (BB+ or lower)
Unrated

2023	2022
64.2%	57.5%
2.8%	2.4%
33.0%	40.1%
100.0%	100.0%

#### ii. Counterparty default risk - derivative contracts

The Plan is exposed to counterparty credit risk associated with the derivative contracts held in the pools. The maximum credit risk in respect of derivative financial instruments is the fair value of all contracts with counterparties in a favourable position (see Note 4f). AlMCo is responsible for selecting and monitoring derivative counterparties on behalf of the Plan.

AIMCo monitors counterparty risk exposures and actively seeks to mitigate counterparty risk by requiring that counterparties collateralize mark-to-market gains for the Plan. Provisions are in place to allow for termination of the contract should there be a material downgrade in a counterparty's credit rating. The exposure to credit risk on derivatives is reduced by entering into master netting agreements and collateral agreements with counterparties. To the extent that any unfavourable contracts with the counterparty are not settled, they reduce the Plan's net exposure in respect of favourable contracts with the same counterparty.

#### iii. Security lending risk (in thousands)

To generate additional income, the pools participate in a securities-lending program. Under this program, the custodian may lend investments held in the pools to eligible third parties for short periods. At December 31, 2023, the Plan's share of securities loaned under this program is \$218,229 (2022: \$323,256) and collateral held totals \$230,161 (2022: \$344,468). Securities borrowers are required to provide the collateral to assure the performance of redelivery obligations. Collateral may take the form of cash, other investments or bankers' acceptances and bankers' deposit notes. All collateralization, by the borrower, must be in excess of 100% of investments loaned.

#### b. FOREIGN CURRENCY RISK (in thousands)

The Plan is exposed to foreign currency risk associated with the underlying securities held in the pools that are denominated in currencies other than the Canadian dollar. Foreign currency risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in foreign exchange rates. The fair values of investments denominated in foreign currencies are translated into Canadian dollars using the reporting date exchange rate. As a result, fluctuations in the relative value of the Canadian dollar against these foreign currencies can result in a positive or negative effect on the fair value of investments. Approximately 44% (2022: 48%) of the Plan's investments, or \$8,140,570 (2022: \$8,133,665), are denominated in currencies other than the Canadian dollar, with the largest foreign currency exposure being to the US dollar, 25% (2022: 27%) and the Euro, 5% (2022: 5%).

If the value of the Canadian dollar increased by 10% against all other currencies, and all other variables are held constant, the potential loss in fair value to the Plan would be approximately 4.4% of total investments (2022: 4.8%).

The following table summarized the Plan's exposure to foreign currency investments held in the pools at December 31, 2023:

(in	thousand	s
-----	----------	---

	2023		2022	_
Currency *	Fair Value	Sensitivity	Fair Value	Sensitivity
U.S. dollar	\$ 4,626,687 \$	(462,669)	\$ 4,621,457 \$	(462,146)
Euro	864,925	(86,493)	815,072	(81,507)
British pound	539,357	(53,936)	461,090	(46,109)
Japanese Yen	368,363	(36,836)	496,904	(49,690)
Hong Kong dollar	337,482	(33,748)	344,153	(34,415)
New Taiwan dollar	188,725	(18,873)	159,643	(15,964)
Swiss franc	146,645	(14,665)	207,095	(20,710)
Other foreign currency	1,068,386	(106,839)	1,028,251	(102,825)
Total foreign currency investments	\$ 8,140,570 \$	(814,059) \$	\$ 8,133,665 \$	(813,366)

<sup>\*</sup> Information on specific currencies is disclosed when the current year fair value is greater than 1% of the Plan's net assets.

#### c. INTEREST RATE RISK

The Plan is exposed to interest rate risk associated with the underlying interest-bearing securities held in the pools managed by AIMCo. Interest rate risk relates to the possibility that the fair value of investments will change in value due to future fluctuations in market interest rates. In general, investment returns from bonds and mortgages are sensitive to changes in the level of interest rates, with longer term interest bearing securities being more sensitive to interest rate changes than shorter-term bonds. If interest rates increased by 1%, and all other variables are held constant, the potential loss in fair value to the Plan would be approximately 1.0% of total investments (2022: 0.8%).

#### d. PRICE RISK

Price risk relates to the possibility that pool units will change in fair value due to future fluctuations in market prices of equities held in the pools caused by factors specific to an individual equity investment or other factors affecting all equities traded in the market. The Plan is exposed to price risk associated with the underlying equity investments held in pools managed by AIMCo. If equity market indices (S&P/TSX, S&P500, S&P1500 and MSCI ACWI and their sectors) declined by 10%, and all other variables are held constant, the potential loss in fair value to the Plan would be approximately 5.5% of total investments (2022: 5.6%). Changes in fair value of investments are recognized in the statement of changes in net assets available for benefits.

#### e. LIQUIDITY RISK

Liquidity risk is the risk that the Plan will encounter difficulty in meeting obligations associated with its financial liabilities. Liquidity requirements of the Plan are met through income generated from investments, employee and employer contributions, and by investing in pools that hold publicly traded liquid assets traded in an active market that are easily sold and converted to cash. Units in pools that hold private investments like real estate, renewable, infrastructure and private equities are less easily converted to cash since the underlying securities are illiquid because they take more time to sell. The Plan's future liabilities include the accrued pension benefits obligation and exposure to net payables to counterparties (Note 4f). Liquidity risk is monitored by AIMCo using a Stressed Liquidity Coverage Ratio which considers the ratio of liquidity supply to liquidity demand in an extreme liquidity scenario (defined as the 3-month period during the Global Financial Crisis immediately following the collapse of Lehman Brothers).

#### f. USE OF DERIVATIVE FINANCIAL INSTRUMENTS IN POOLED INVESTMENT FUNDS

The Plan has indirect exposure to derivative financial instruments through its investment in units of the pools. AIMCo uses derivative financial instruments to cost effectively gain access to equity markets in the pools, manage asset exposure within the pools, enhance pool returns and manage interest rate risk, foreign currency risk and credit risk in the pools.

		Plan's Indi (in thou	rect Share usands)
By counterparty	Number of counterparties	2023	2022
Contracts in net favourable position (current credit exposure)	109	\$ 281,822	\$ 64,780
Contracts in net unfavourable position	4	(20,929)	(154,128)
Net fair value of derivative contracts	113	\$ 260,893	\$ (89,348)

- i. Current credit exposure: The current credit exposure is limited to the amount of loss that would occur if all counterparties to contracts in a net favourable position totaling \$281,822 (2022: \$64,780) were to default at once. Cash settlements: Receivables or payables with counterparties are usually settled in cash every three months.
- iii. Contract notional amounts: The fair value of receivables (receive leg) and payables (pay leg) and the exchange of cash flows with counterparties in pooled funds are based on a rate or price applied to a notional amount specified in the derivative contract. The notional amount itself is not invested, received, or exchanged with the counterparty and is not indicative of the credit risk associated with the contract. Notional amounts are not assets or liabilities and do not change the asset mix reported in Note 3. Accordingly, there is no accounting policy for their recognition in the statement of financial position.

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#### f. USE OF DERIVATIVE FINANCIAL INSTRUMENTS IN POOLED INVESTMENT FUNDS (continued)

# Plan's Indirect Share (in thousands)

Types of derivatives used in pools	2023	2022
Equity-based derivatives (i)	\$ 156,585	\$ 7,075
Foreign currency derivatives(ii)	70,266	(124,884)
Interest rate derivatives (iii)	31,675	26,650
Credit risk derivatives (iv)	2,367	1,811
Net fair value of derivative contracts	\$ 260,893	\$ (89,348)

- i. Equity derivatives are structured to receive income from counterparties based on the performance of a specified market-based equity index, security or basket of equity securities applied to a notional amount in exchange for floating rate interest paid to the counterparty. Floating rate notes are held in equity pools to provide floating rate interest to support the pay leg of the equity derivatives. Rights, warrants, futures and options are also included as structured equity replication derivatives.
- ii. Foreign currency derivatives include contractual agreements to exchange specified currencies at an agreed upon exchange rate and on an agreed settlement date in the future.
- iii. Interest rate derivatives exchange interest rate cash flows (fixed to floating or floating to fixed) based on a notional amount. Interest rate derivatives primarily include interest rate swaps and cross currency interest rate swaps, futures contracts and options.
- iv. Credit risk derivatives include credit default swaps allowing the pools to buy and sell protection on credit risk inherent in a bond. A premium is paid or received, based on a notional amount in exchange for a contingent payment should a defined credit event occur with respect to the underlying security.
- v. At December 31, 2023, deposits in futures contracts margin accounts totaled \$30,453 (2022: \$52,117). Cash and non-cash collateral for derivative contracts pledged and received, respectively, totaled \$(124,456) (2022: \$(161,205)) and \$nil (2022: \$nil).

#### NOTE 5. PENSION OBLIGATION (in thousands)

#### a. ACTUARIAL VALUATION AND EXTRAPOLATION ASSUMPTIONS

An actuarial valuation of the Plan was carried out at December 31, 2021 by George and Bell Consulting and results were then extrapolated to December 31, 2023.

The actuarial assumptions used in determining the value of the pension obligation of \$13,917,316 (2022: \$12,857,821) reflect PSPP Corporation's best estimate, as at the measurement date, of future economic events and involve both economic and non-economic assumptions. The non-economic assumptions include considerations such as mortality as well as withdrawal and retirement rates. The primary economic assumptions include the discount rate, inflation rate, and the salary escalation rate. The discount rate is determined by taking the plan specific asset allocation and applying the expected long-term asset returns determined by an independently developed investment model. It does not assume a return for active management beyond the passive benchmark.

# a. ACTUARIAL VALUATION AND EXTRAPOLATION ASSUMPTIONS (continued)

The major assumptions used for accounting purposes were:

	2023	2022
	%	%
Discount rate	6.2	6.5
Inflation rate	2.0	2.0
Salary escalation rate	3.0	3.0
Mortality rate	2014 Canadian Per	sioner Mortality

2014 Canadian Pensioner Mortality Private Sector Table

Net loss due to actuarial assumption changes of \$477,568 (2022: net gain of \$1,045,148) primarily resulted from changes in the discount rate.

The next actuarial valuation of the Plan will be completed no later than December 31, 2024.

Any differences between the actuarial valuation results and extrapolation results as reported in these financial statements will affect the financial position of the Plan and will be accounted for as gains or losses in the year following the next actuarial valuation.

#### b. EXPERIENCE LOSSES AND GAINS

There were experience losses of \$94,871 from cost-of-living adjustments being greater than expected and experience gains of \$3,955 due to revised benefit payments at December 31, 2023.

In 2022, there were experience losses of \$207,104 from cost-of-living adjustments being greater than expected and experience gains of \$281,229 due to difference in actual experience in 2021 versus the assumptions used in the December 31, 2020 actuarial valuation.

#### c. SENSITIVITY OF CHANGES IN MAJOR ASSUMPTIONS

The Plan's future experience will differ, perhaps significantly, from the assumptions used in the actuarial valuation and extrapolation. Any differences between the actuarial assumptions and future experience will emerge as gains or losses in future valuations and will affect the financial position of the Plan.

# c. SENSITIVITY OF CHANGES IN MAJOR ASSUMPTIONS (continued)

The following is a summary of the sensitivities of the Plan's pension obligation and current service cost to changes in assumptions used in the actuarial extrapolation at December 31, 2023:

(in thousands)

	Changes in Assumptions %	Increase in Plan Obligation \$	Increase in Current Service Cost as a % of Pensionable Earnings (1)
Inflation rate increase holding discount rate and salary escalation assumptions constant	1.0	913,314	1.1
Salary escalation/YMPE/Maximum pension limit rate increase holding inflation rate and discount rate assumptions constant	1.0	393,786	1.2
Discount rate decrease holding inflation rate and salary escalation assumptions constant	(1.0)	1,843,831	2.9

<sup>(1)</sup> The current service cost as a percentage of pensionable earnings is 14.6% at December 31, 2023.

# NOTE 6. SURPLUS

	(in thousands)				
		2022			
Surplus at beginning of year	\$	4,258,721	\$	4,588,479	
Increase (decrease) in net assets available for benefits		1,343,274		(941,867)	
Net (increase) decrease in pension obligation		(1,059,495)		612,109	
Surplus at end of year	\$	4,542,500	\$	4,258,721	

# NOTE 7. CONTRIBUTIONS

	 (in thou	ısand	ds)
	2023		2022
Employers			
Current service	\$ 258,360	\$	286,235
Past service	2,400		1,468
	260,760		287,703
Employees			
Current service	257,368		279,872
Past service	3,910		3,209
	261,278		283,081
	\$ 522,038	\$	570,784

# NOTE 8. INVESTMENT INCOME

The following is a summary of the Plan's investment income (loss) by asset class:

(in thousands)

	Income	Change in Fair Value	2023 Total	Income	Change in Fair value	2022 Total
Fixed Income						
Money market	\$ 8,338	\$ 1,514 \$	9,852 \$	\$ 6,687 \$	(343,020) \$	(336,333)
Bonds, mortgages and private debt	138,874	120,299	259,173	29,700	26,239	55,939
	147,212	\$ 121,813 \$	269,025	36,387 \$	(316,781) \$	(280,394)
Equities						
Canadian	84,821	22,151	106,972	69,516	(103,949)	(34,433)
Foreign	1,073,538	(148,895)	924,643	(335,690)	(485,139)	(820,829)
	1,158,359	(126,744)	1,031,615	(266,174)	(589,088)	(855,262)
Alternatives						
Real Estate	78,006	(219,515)	(141,509)	77,850	55,751	133,601
Infrastructure	(37,100)	127,626	90,526	123,293	127,068	250,361
Renewables	10,752	256	11,008	15,212	48,911	64,123
Private equity	26,587	403,166	429,753	18,763	(26,731)	(7,968)
	78,245	311,533	389,778	235,118	204,999	440,117
Strategic and currency						
investments	(2,813)	5,193	2,380	(3,937)	(2,318)	(6,255)
	\$ 1,381,003	\$ 311,795 \$	1,692,798 \$	\$ 1,394 \$	(703,188) \$	(701,794)

The change in fair value includes realized and unrealized gains and losses on pool units. Realized and unrealized gains and losses on pool units total \$(71,355) and \$385,736 respectively (2022: \$(355,950) and \$(347,238) respectively).

Realized and unrealized (losses) and gains on currency hedges/derivatives total \$(5,524) and \$2,938 respectively (2022: \$0 and \$0 respectively).

Income earned in pooled investment funds is distributed to the Plan daily based on the Plan's pro rata share of units issued by the pool. Income earned by the pools is determined on an accrual basis and includes interest, dividends, security lending income, realized gains and losses on sale of securities determined on an average cost basis, and income and expense on derivative contracts.

# NOTE 9. INVESTMENT RETURNS, CHANGE IN NET ASSETS AND PENSION OBLIGATION

The following is a summary of investment returns (losses), and the annual change in net assets compared to the annual change in the pension obligation and the per cent of pension obligation supported by net assets:

	In %					
	2023	2022	2021	2020	2019	
Increase (decrease) in net assets attributed to:						
Investment income						
Policy benchmark return on investments	10.3	(5.9)	10.8	8.0	13.8	
Value (lost) added by AIMCo	(1.1)	1.4	5.0	(6.4)	(1.5)	
Time weighted rate of return, at fair value (a)	9.2	(4.5)	15.8	1.6	12.3	
Other sources (b)	(1.9)	(0.7)	(0.3)	(0.2)	0.1	
Per cent change in net assets (c)	7.8	(5.2)	15.5	1.4	12.4	
Per cent change in pension obligation (c)	8.2	(4.5)	0.4	5.9	(4.1)	
Per cent of pension obligation supported by net assets	133	133	134	117	122	

- (a) All investment returns are provided by AIMCo and are net of investment expenses.
- (b) Other sources include employee and employer contributions and transfers from other plans, net of benefit payments, transfers to other plans and administration expenses.
- (c) The percentage change in net assets and the pension obligation is based on the amounts reported on the statement of changes in net assets available for benefits and the statement of changes in pension obligation.

(in thousands)

2022

1,778

97,489

25,080 680,564

556,217

2023

596,616 \$

1,763

66,918

27,096

692,393 \$

# NOTE 10. BENEFIT PAYMENTS

Retirement benefits	\$
Disability pensions	
Termination benefits	
Death benefits	
	\$

# **NOTE 11. INVESTMENT EXPENSES**

	(in thousands)			
		2023		2022
Amounts charged by AIMCo for:				
Investment costs (a)	\$	82,258	\$	72,222
Performance-based fees (a)		44,840		33,249
GST		4,612		3,334
Total investment expenses	\$	131,710	\$	108,805
Increase (Decrease) in expenses (a)		21.1%		(15.8%)
Increase in average investments under management		1.1%		4.3%
Increase in value of investments attributed to AIMCo		(0.6)		1.1%
Investment expenses		74 bps		62 bps

<sup>(</sup>a) Investment expenses are charged by AIMCo on a cost recovery basis. Please refer to AIMCo's financial statements for a more detailed breakdown of the types of expenses incurred by AIMCo. Amounts recovered by AIMCo for investment costs include those costs that are primarily non-performance related including external management fees, external administration costs, employee salaries and incentive benefits and overhead costs. Amounts recovered by AIMCo for performance-based fees relate to external managers hired by AIMCo.

#### NOTE 12. ADMINISTRATIVE EXPENSES

	(in thousands)				
		2023		2022	
Pension administration costs and process improvement costs					
Alberta Pensions Services Corporation (APS)*	\$	10,986	\$	10,944	
PSPP Corporation		3,350		2,751	
Goods and services tax		478		456	
Bank Fees*		9		-	
	\$	14,823	\$	14,151	
Administrative expenses per member in dollars (based on total membership)	\$	158	\$	156	

<sup>\*</sup>Effective October 2023, a new PSPP disbursement account was utilized for member and pensioner payments. Bank fees were previously charged to APS.

Pension administration and process improvement costs were paid to APS and PSPP Corporation on a cost-recovery basis

Goods and service tax reflects the amount not eligible for rebate under the Excise Tax Act.

# **NOTE 13. CAPITAL**

The Plan defines its capital as the funded status. The actuarial surplus or deficit is determined by an actuarial funding valuation performed, at a minimum, every three years. The objective is to ensure that the Plan is fully funded over the long term through the management of investments, contribution rates and benefits. Investments, the use of derivatives and leverage are based on an asset mix and risk policies and procedures that are designed to enable the Plan to meet or exceed its long-term funding requirement within an acceptable level of risk, consistent with the Plan's SIPP.

The Plan's asset values are determined on the fair value basis for accounting purposes. However, for funding valuation purposes, asset values are adjusted for fluctuations in fair values to moderate the effect of market volatility on the Plan's funded status. Actuarial asset values for funding valuation purposes amounted to \$18,652,000 at December 31, 2023 (2022: \$17,711,000).

#### NOTE 14. RESPONSIBILITY OF FINANCIAL STATEMENTS

These financial statements were approved by the Board of Directors of PSPP Corporation based on information and representations provided by PSPP Corporation, APS, AIMCo and the Plan's actuary.