Attachment 4-Staff-48

Actuarial Reports

Algoma Power Inc. EB-2024-0007

FortisOntario Inc.

2023 Year-End Disclosures and 2024 Pension Expense Estimates under CICA3461

		Algoma RPP	Algoma SERP	TOTAL
Change in benefit obligation	~	26,313,267	87,795	47,939,000
Benefit obligation - end of prior period	2	445,348		760,634
Current service cost (employer)		1,360,044	4,031	2,466,697
Interest cost		216,482	-	216,482
Employee contributions		210,402		-
Plan amendments		(1,301,226)	(25,843)	(2,801,160)
Benefits paid		(1,501,220)	(20,040)	(2,001,100)
Net transfer in (out)*				-
Acquisitions (divestitures)		50		
Increase (decrease) in obligation due to cu	rti			-
Obligation being settled				-
Special Termination Benefit		2,310,172	20,131	3,515,936
Actuarial loss (gain)		29,344,087	86,114	52,097,589
Benefit obligation - end	-	23,544,007	00,114	02,001,000
hange in plan assets				67 700 000
Market value of plan assets - end of prior p	ei 2	29,929,093	(*)	57,720,093
Actual return on plan assets		2,902,820		5,259,434
Employer contributions		446,062	25,843	502,059
Employee contributions		216,482	-	216,482
Benefits paid		(1,301,226)	(25,843)	(2,801,160)
Net transfer in (out)*		385	5 5 .)	mana and
Actual plan expenses				(213,218)
Market value of plan assets - end		32,193,231	<u>(*)</u>	60,683,690
conciliation of funded status				
Benefit obligation - end	2	29,344,087	86,114	52,097,589
Market value of plan assets - end	2	32,193,231		60,683,690
unded status - surplus (deficit)	-	2,849,144	(86,114)	8,586,101
mployer contributions after measurement	d			
Inamortized transitional obligation	·		52.S	34
namortized past service costs		1.2	1 in 1	2,478
namortized net actuarial loss (gain)		673,925	(963)	2,331,206
ccrued benefit asset (liability)		3,523,069	(87,077)	10,919,785
23 Components of expense				
Current service cost		445,348	19	935,634
		1,360,044	4,031	2,466,697
nterest cost		(1,705,751)	-	(3,176,391
Expected return on plan assets		(1,705,751)		(0,170,001
Amortization of transitional obliation				543
Amortization of past service costs			(10 262)	
Amortization of net actuarial loss (gain)			(10,262)	(6,912 219,571
Net expense (income)	-	99,641	(6,231)	219,571
sumptions				
At beginning of period			F 0.00/	
Discount rate		5.30%	5,30%	
Rate of compensation increase		3.50%	N/A	
Expected rate of return on plan assets EARSL		5.75% 18.80	N/A 2.20	
t end of period			1 0001	
Discount rate		4.60%	4.60%	
Rate of compensation increase		3.50%	N/A	
Expected rate of return on plan assets		5.75%	N/A	
EARSL		18.40	2.90	
stimated 2024 Components of expense				6 / 0 D
Current service cost		550,992	-	912,932
Interest cost		1,319,441	3,431	2,330,442
Expected return on plan assets		(1,829,449)		(3,350,423
Amortization of Iransitional obliation			-	543
			8	5,801
Amortization of past service costs				
Amortization of net actuarial loss (gain)		40,984	3,431	(100,705

Fortis Ontario's Non-Pension Post Retirement Benefit Plans Estimated 2023 Expense under Section 3461

From To

Change in benefit obligation Benefit obligation - end of prior period Current service cost (employer) Interest cost Employee contributions Plan amendments Benefits paid Net transfer in (out) Acquisitions (divestitures) Increase (decrease) in obligation due to curtailment Obligation being settled Special termination benefits Actuarial loss (gain) Benefit obligation - end

Change in plan assets

Market value of plan assets - end of prior period Actual return on plan assets Employer contributions Employee contributions Benefits paid Surplus paid out to employer Settlement payments Net transfer in (out) Acquisitions (divestitures) Actual plan expenses Market value of plan assets - end

Reconciliation of funded status

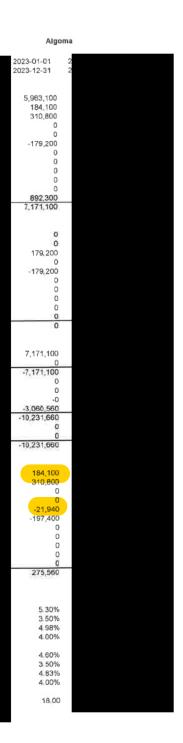
Benefit obligation - end Market value of plan assets - end Funded status - surplus (deficit) Employer contributions after measurement date Unamortized transitional obligation (asset) Unamortized past service costs Unamortized net actuarial loss (gain) Accrued benefit asset (liability) Unamortized transitional increase (decrease) in valuation allowance Valuation allowance Accrued benefit asset (liability), net of valuation allowance

Components of expense Current service cost (including provision for plan expenses) Interest cost Expected return on plan assets Amortization of transitional obligation (asset) Amortization of past service costs Amortization of net actuarial loss (gain) Curtailment loss (gain) Settlement loss (gain) Amortization of transitional increase (decrease) in VA Increase (decrease) in valuation allowance Special termination benefits Net expense (income)

Assumptions At beginning of period Discount rate Rate of compensation increase Immediate trend rate Ultimate trend rate At end of period Discount rate Rate of compensation increase Immediate trend rate Ultimate trend rate

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EARSL for in-year amortization of actuarial (gain)/loss



Fortis Ontario's Non-Pension Post Retirement Benefit Plar Estimated 2023 Expense under Section 3461

Estimated 2023 Expense under Section 5401	Algoma
From	2024-01-01
То	2024-12-31
Components of expense	
Current service cost (including provision for plan expenses)	240,400
Interest cost	325,200
Expected return on plan assets	0
Amortization of transitional obligation (asset)	0
Amortization of past service costs	0
Amortization of net actuarial loss (gain)	-130,200
Curtailment loss (gain)	0
Settlement loss (gain)	0
Amortization of transitional increase (decrease) in VA	0
Increase (decrease) in valuation allowance Special termination benefits	0
Net expense (income)	435,400
	,
Assumptions	
At beginning of period	
Discount rate	4.60%
Rate of compensation increase	3.50%
Immediate trend rate	4.83%
Ultimate trend rate At end of period	4.00%
Discount rate	4.60%
Rate of compensation increase	3.50%
Immediate trend rate	4.77%
Ultimate trend rate	4.00%
EARSL for in-year amortization of actuarial (gain)/loss	18.00

Fortis Ontario's Non-Pension Post Retirement Benefit Plans Estimated 2025 Expense under Section 3461

Estimated 2025 Expense under Section 3461	Algoma				
From	2021-01-01	2022-01-01	2023-01-01	2024-01-01	2025-01-01
То	2021-12-31	2022-12-31	2023-12-31	2024-12-31	2025-12-31
Change in benefit obligation					
Benefit obligation - end of prior period	8,935,000	8,332,600	5,963,100	6,371,400	6,692,500
Current service cost (employer)	416,500	339,200	184,100	197,200	205,000
Interest cost	247,800	271,700	310,800	326,100	342,500
Employee contributions	0	0	0	0	0
Plan amendments	0	0	0	0	0
Benefits paid	-165,300	-139,700	-196,700	-202,200	-211,300 0
Net transfer in (out)	0	0	0	0	0
Acquisitions (divestitures)	0	0	0	0	0
Increase (decrease) in obligation due to curtailment	0	0	0	0	ő
Obligation being settled	0	0	0	0	ő
Special termination benefits	-1,101,400	-2,840,700	110,100	0	0
Actuarial loss (gain)	8,332,600	5,963,100	6,371,400	6,692,500	7,028,700
Benefit obligation - end	0,552,000	3,303,100	0,071,400		10000000000
Change in plan assets					
Market value of plan assets - end of prior period	0	0	0	0	0
Actual return on plan assets	0	0	0	0	211,300
Employer contributions	165,300	139,700	196,700	202,200 0	211,300
Employee contributions	0	0	0	-202,200	-211,300
Benefits paid	-165,300	-139,700 0	-196,700 0	-202,200	-211,500
Surplus paid out to employer	0	0	0	0	o
Settlement payments	0	0	0	0	Ő
Net transfer in (out)	0	0	ő	ő	Ő
Acquisitions (divestitures)	0	0	ő	õ	Ō
Actual plan expenses		0	0	0	0
Market value of plan assets - end	U		-		
Reconciliation of funded status					7 020 700
Benefit obligation - end	8,332,600	5,963,100	6,371,400	6,692,500	7,028,700 0
Market value of plan assets - end	0	0	0	0	-7,028,700
Funded status - surplus (deficit)	-8,332,600	-5,963,100	-6,371,400	-6,692,500 0	-7,028,700
Employer contributions after measurement date	0	0	0	0	0
Unamortized transitional obligation (asset)	0		0	0	ő
Unamortized past service costs	-13,640	-21,940 -4,150,260	-3,842,760	-3,664,660	-3,498,260
Unamortized net actuarial loss (gain)	-1,337,560 -9,683,800	-10,135,300	-10,214,160	-10,357,160	-10,526,960
Accrued benefit asset (liability) Unamortized transitional increase (decrease) in valuation allowance	-5,003,000	0	0	0	0
	o	ō	Ő	0	0
Valuation allowance Accrued benefit asset (liability), net of valuation allowance	-9,683,800	-10,135,300	-10,214,160	-10,357,160	-10,526,960
Components of expense			101 100	407.000	205,000
Current service cost (including provision for plan expenses)	416,500	339,200	184,100	197,200	342,500
Interest cost	247,800	271,700	310,800	326,100 0	342,500
Expected return on plan assets	0	0	0	0	0
Amortization of transitional obligation (asset)	0	8,300	-21,940	0	0
Amortization of past service costs	8,300 0	-28,000	-197,400	-178,100	-166,400
Amortization of net actuarial loss (gain)	0	-20,000	0,400	0	0
Curtailment loss (gain)	0	0	0	0	0
Settlement loss (gain)	0	0 0	0	0	0
Amortization of transitional increase (decrease) in VA increase (decrease) in valuation allowance	ő	0	0	0	0
Special termination benefits	0	0	0	0	0
Net expense (income)	672,600	591,200	275,560	345,200	381,100
Assumptions At beginning of period					
	2.80%	3.30%	5.30%	5,20%	5.20%
Discount rate Rate of compensation increase	3.50%	3.50%	3.50%	3,50%	3.50%
Immediate trend rate	5.27%	5.05%	4,98%	4.86%	4,80%
Ultimate trend rate	4.00%	4.00%	4.00%	4,00%	4.00%
At end of period					
Discount rate	3.30%	5.30%	5.20%	5,20%	5.20%
Rate of compensation increase	3.50%	3.50%	3_50%	3,50%	3.50%
Immediate trend rate	5,05%	4_98%	4.86%	4.80%	4.80%
Ultimate trend rate	4.00%	4.00%	4_00%	4.00%	4.00%
	18.00	18,00	18.00	18.00	18.00
EARSL for in-year amortization of actuarial (gain)/loss	10.00	10,00	10,00	10.00	. 202 -

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Estimated 2023 Expense under Section 3461	
-	Algoma
From	2024-01-01
From To	2024-01-01
10	2024 12 01
Components of expense	
Current service cost (including provision for plan expenses)	240,400
Interest cost	325,200
Expected return on plan assets	0
Amortization of transitional obligation (asset)	0
Amortization of past service costs	0
Amortization of net actuarial loss (gain)	-130,200
Curtailment loss (gain)	0
Settlement loss (gain)	0
Amortization of transitional increase (decrease) in VA	0
Increase (decrease) in valuation allowance	0
Special termination benefits	435,400
Net expense (income)	435,400
Assumptions	
At beginning of period	
Discount rate	4.60%
Rate of compensation increase	3.50%
Immediate trend rate	4.83%
Ultimate trend rate	4.00%
At end of period	1.000/
Discount rate	4.60%
Rate of compensation increase	3.50%
Immediate trend rate	4.77%
Ultimate trend rate	4.00%
EARSL for in-year amortization of actuarial (gain)/loss	18.00

A. 1

Fortis Ontario's Non-Pension Post Retirement Benefit Plar

CICA3461 Pension Expense

Plan Name	Algoma Power Inc. Retirement Fund	Algoma Power Inc. SERP	All plans
Country	Canada	Canada	
Fiscal year ending on	12/31/2024	12/31/2024	12/31/2024
A. Components of net periodic benefit cost			
1. Service cost	550,992		550,992
2. Interest cost	1,319,441	3,431	1,322,872
3. Expected return on plan assets	(1,829,449)	-	(1,829,449)
4 Amortization of prior service cost	Ŧ	-	=
5. Amortization of net (gain) loss	-		-
6. Curtailment (gain) / loss recognized	-		-
7. Settlement (gain) / loss recognized	-	-	-
8. Special termination benefit recognized	-	-	-
9. Net periodic benefit cost	40,984	3,431	44,415
B. Assumptions to determine net cost			
Discount rate	4.60%	4.60%	4.60%
Expected return on assets	5.75%	N/A	5.75%
Salary increase rate	3.50%	3.50%	3.50%

Estimated Projections Only - CICA3461 sent February 8, 2024

Plan Name	Algoma Power Inc. Retirement Fund	Algoma Power Inc. SERP	All plans
Country	Canada	Canada	42/24/2025
Fiscal year ending on	12/31/2025	12/31/2025	12/31/2025
A. Components of net periodic benefit cost			
1. Service cost	499,148		499,148
2. Interest cost	1,379,279	2,739	1,382,018
3. Expected return on plan assets	(1,838,168)		(1,838,168)
4 Amortization of prior service cost	-	<u>+</u>	=
5. Amortization of net (gain) loss	-	2	-
6. Curtailment (gain) / loss recognized	-	-	=
7. Settlement (gain) / loss recognized	-	1	-
8. Special termination benefit recognized		. <u> </u>	-
9. Net periodic benefit cost	40,259	2,739	42,998
B. Assumptions to determine net cost			
Discount rate	4.90%	4.90%	4.90%
Expected return on assets	5.75%	N/A	5.75%
Salary increase rate	3.50%	3.50%	3.50%