

Philadelphia Gas Works Pension Plan

Actuarial Valuation Report for the Fiscal Year Ending June 30, 2019 – Accounting under GASB 67/68



Introduction

This report documents the results of the actuarial valuation for the fiscal year ending June 30, 2019 of the Philadelphia Gas Works Pension Plan. The plan is a single-employer plan and does not issue a separate financial statement. As a result, all reporting requirements are included in the employer's financial statement. These results are based on a Measurement Date of June 30, 2019. The information provided in this report is intended strictly for documenting information relating to company and plan disclosure and reporting requirements.

Determinations for purposes other than the financial accounting requirements may be significantly different from the results in this report. Thus, the use of this report for purposes other than those expressed here may not be appropriate.

This valuation has been conducted in accordance with generally accepted actuarial principles and practices, including the applicable Actuarial Standards of Practice as issued by the Actuarial Standards Board. In addition, the valuation results are based on our understanding of the financial accounting and reporting requirements under U.S. Generally Accepted Accounting Principles as set forth in Government Accounting Standards Board Statement 68 (GASB 68) including any guidance or interpretations provided by the Company and/or its audit partners prior to the issuance of this report. The information in this report is not intended to supersede or supplant the advice and interpretations of the Philadelphia Gas Works' auditors. Additional disclosures may be required under GASB 67.

Future actuarial measurements may differ significantly from the current measurements presented in this report due (but not limited to) to such factors as the following:

- Plan experience differing from that anticipated by the economic or demographic assumptions;
- Changes in actuarial methods or in economic or demographic assumptions;
- Increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period); and
- Changes in plan provisions or applicable law.

Due to the limited scope of our assignment, we did not perform an analysis of the potential range of such future measurements. However, an assessment and disclosure of risks pertaining to the funding valuation as required by the actuarial standards of practice is being provided in a separate report.

Funded status measurements shown in this report are determined based on various measures of plan assets and liabilities. For entity and plan disclosure and reporting purposes, funded status is determined using plan assets measured at market value. Plan liabilities are measured based on the interest rates and other assumptions summarized in the Actuarial Assumptions and Methods section of this report.

These funded status measurements may not be appropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan's benefit obligations, and funded status measurements for Philadelphia Gas Works and plan disclosure and reporting purposes may not be appropriate for assessing the need for or the amount of future contributions.

In conducting the valuation, we have relied on personnel, plan design, and asset information supplied by Philadelphia Gas Works as of the valuation date. While we cannot verify the accuracy of all the information, the supplied information was reviewed for consistency and reasonableness. As a result of this review, we have no reason to doubt the substantial accuracy or completeness of the information and believe that it has produced appropriate results.

The actuarial assumptions and methods used in this valuation are described in the Actuarial Assumptions and Methods section of this report. Philadelphia Gas Works selected the economic and demographic assumptions and prescribed them for use for purposes of compliance with GASB 68. Aon provided guidance with respect to these assumptions, and it is our belief that the assumptions represent reasonable expectations of anticipated plan experience.

The undersigned are familiar with the near-term and long-term aspects of pension valuations and collectively meet the Qualification Standards of the American Academy of Actuaries necessary to render the actuarial opinions contained herein. The information provided in this report is dependent upon various factors as documented throughout this report, which may be subject to change. Each section of this report is considered to be an integral part of the actuarial opinions.

To our knowledge, no colleague of Aon providing services to Philadelphia Gas Works has any material direct or indirect financial interest in Philadelphia Gas Works. Thus, we believe there is no relationship existing that might affect our capacity to prepare and certify this actuarial report for Philadelphia Gas Works.

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A. Comparative Summary of Principal Valuation Results

Actuarial Valuation for Fiscal Year Ending

1.	Participant Data	June 30, 2018	June 30, 2019	Percent <u>Change</u>
	Active Participants	1,213	1,195	(1.5) %
	Retired Participants	2,193	2,178	(0.7) %
	Vested Terminated Participants	323	317	(1.9) %
	Total	3,729	3,690	(1.0) %
	Total Payroll	101,270,528	98,453,547	(2.8) %
	Average Pay	83,488	82,388	(1.3) %
	Average Age	44.58	44.44	(0.3) %
	Average Past Service	15.19	14.96	(1.5) %

A. Comparative Summary of Principal Valuation Results (continued)

Actuarial Valuation for Fiscal Year Ending

		<u>J</u>	une 30, 2019	<u>J</u>	lune 30, 2020	Percent <u>Change</u>	
1.	Contribution Range						
	Normal Cost (Exhibit D)	\$	7,760,389	\$	7,281,627	(6.2)	%
	Indicated Midyear -						
	20 Year Contribution (Exhibit E)	\$	28,796,913	\$	26,844,381	(6.8)	%
	30 Year Contribution (Exhibit E)	\$	26,436,938	\$	24,914,161	(5.8)	%
	20 Year Contribution as Percentage of Compensation		28.44%		27.27%	(4.1)	%
	30 Year Contribution as Percentage of Compensation		26.11%		25.31%	(3.1)	%

The Normal Cost above represents the cost of benefits being earned by additional years of service with PGW net of employee contributions. This figure has decreased since the previous year as the result of a decrease in expected payroll and an increase in expected employee contributions.

The contribution levels are the sum of the Normal Cost and a level dollar amortization of the unfunded actuarial liability. The contribution amounts have decreased over the prior period (20-year basis) for several reasons:

- a) Net Normal Cost: The portion of the contribution associated with the net normal cost decreased compared to last year. This decreased the contribution by \$0.5 million (0.5% of pay).
- b) Open amortization policy: The 20-year contribution is based on an open amortization period. An open amortization period leads to a decrease in the contribution amount year-over-year assuming no experience gains or losses. The effect of this policy is a decrease of \$0.5 million (0.5% of pay).
- c) Demographic changes: The accrued actuarial liability as of July 1, 2019 was approximately \$9.7 million lower than expected based on the prior year valuation. A significant driver of this decrease was a 1.3% decrease in average pay. This decreased the annual contribution by \$0.8 million (0.8% of pay).
- d) Investment returns: The investment return for the period ending June 30, 2019 was approximately \$34.3 million. Based on the 7.30% assumption in place on July 1, 2018, a return of \$38.7 million would have been expected over this period. The asset performance not meeting expectations led to an increase in the annual contribution of less than \$0.1 million (0.1% of pay). Recognizing a smoothed value of assets reduces the impact of the asset returns.
- e) Mortality Table Assumption: A change in the mortality table assumption to the RP-2014 mortality table generationally projected with scale MP-2018 for heathy lives decreased the Accrued Actuarial Liability by approximately \$1.7 million (or approximately 0.2%). This decreased the annual contribution by approximately \$0.2 million (0.2% of pay).

A. Comparative Summary of Principal Valuation Results (continued)

Actuarial Valuation for Plan Year Beginning

		Flati Teal Beginning				
			July 1, 2018		July 1, 2019	Percent <u>Change</u>
1.	<u>Assets</u>					
	Market Asset Value (Exhibit C)	\$	543,245,785	\$	553,239,562	1.8 %

Plan assets are invested in a mix of stocks and bonds held by the Sinking Fund Commission. The long-term asset allocation strategy is an equity allocation of 65% of the portfolio and a fixed income allocation of 35% of the portfolio. The total fund asset return provided by PFM was 6.73% for the fiscal year ending June 30, 2019. This represented an underperformance of plan investments versus the actuarial assumption of 7.30% for the period, but not necessarily an underperformance versus independent investment benchmarks. Review of performance against those benchmarks is outside the scope of this report.

B. Discussion

Since the last actuarial valuation performed as of July 1, 2018, the demographics of the plan participants has changed as follows:

- The number of plan participants decreased 1.0%
- The total number of actives in the plan decreased 1.5%
- Total payroll decreased 2.8%
- Average pay decreased 1.3%
- Average age of active plan participants decreased 0.3%

PGW has indicated they plan to contribute the larger of a 20-year open amortization period and a 30-year closed amortization period of the unfunded liability. Both schedules were included in the range of potential contribution levels and both are expected to gradually improve the funded status of the plan.

At the October 1, 2019 meeting of the Sinking Fund Commission, the Board of Commissioners decided to seek approval for PGW to make an additional contribution to the Plan to maintain the current funding level through June 30, 2020. The request for the additional contribution has been approved by the Office of the City Finance Director. Therefore, PGW is expected to contribute \$29.227 million during valuation year 7/1/2019 which exceeds the amount under the historical contribution policy for the valuation year and is consistent with the contribution amount in PGW's base rates.

C. Financial Summary¹

Assets as of June 30, 2018		\$	543,245,785
Receipts			
Employer Contribution	28,569,807		
Employee Contribution	1,248,941		
Investment return *	34,259,618		
Total Receipts		\$	64,078,366
<u>Disbursements</u>			
Benefit Payments	53,892,944		
Administrative Expenses	191,645		
Total Disbursements		\$	54,084,589
		•	550 000 500
Assets as of June 30, 2019		\$	553,239,562

Asset Information as of June 30, 2019

Asset Allocations	Current Allocation	Target Allocation		
Equity	67.25%	65.00%		
Total Fixed Income	29.95%	35.00%		
Other	2.80%	0.00%		
Annual Rate of Return	Market Value	Assumed Rate		
Rate ²	6.73%	7.30%		

^{*}Net of any additional fund expenses not included in Administrative Expenses under Disbursements

¹ Asset information as reported by the City of Philadelphia.

² The total fund asset return of 6.73% for the fiscal year ending June 30, 2019 was provided by PFM.

D. Plan Reporting – Unfunded Liability and Normal Cost

The following table illustrates the assets and liabilities as of the end of the Plan Year used for the development of the plan reporting information under GASB 67

		Ju	ıne 30, 2018	June 30, 2019		
1.	Fair Market Value of Plan Assets	\$	543,245,785	\$	553,239,562	
2.	Accrued Liability a) Active	\$	251,813,576	\$	244,404,599	
	b) Inactive (not in pay status)c) Inactive (in pay status)d) Total	\$ \$ \$	15,470,065 537,223,543 804,507,184	\$ \$ \$	14,437,435 541,643,453 800,485,487	
3.	Unfunded Liability	\$	261,261,399	\$	247,245,925	
4.	Assets as a percent of liability		67.53%		69.11%	

Valuation Date: Actuarial liabilities and assets are calculated as of the Fiscal Year end date.

Discount Rate: The discount rate used to measure the total pension liability was 7.30%. The projection of cash flows used to determine the discount rate assumed the contributions from Plan members will be made at the current contribution rate and that contributions from PGW will be made based on the current, actuarially determined funding policy. Based on those assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the Total Pension Liability.

E. GASB 67 and 68 Reports GASB 68 Reporting – Expense

The following table illustrates the development of the plan expense under GASB 68

		J	une 30, 2018	June 30, 2019		
1.	Service Cost	\$	6,102,724	\$	6,553,990	
2.	Interest Cost					
	a) Total Pension Liability at Measurement Date	\$	783,470,882	\$	804,507,184	
	b) Normal Cost at Measurement Date	\$	6,102,724	\$	6,553,990	
	c) Actual Benefit Payments	\$	(52,626,957)	\$	(53,892,944)	
	d) Discount Rate		7.30%		7.30%	
	e) Interest Cost	\$	55,717,989	\$	57,240,373	
•	E					
3.	Expected Investment Return	¢	E04 E0E E04	c	E42 24E 70E	
	a) Plan Fiduciary Net Position at Measurement Date	\$	521,525,584	\$	543,245,785	
	b) Actual Contributions-Employer	\$	29,143,382	\$ \$	28,569,807	
	c) Actual Contributions-Employee	\$ \$	1,078,192	э \$	1,248,941	
	d) Actual Benefit Payments	Ф \$	(52,626,957)	\$ \$	(53,892,944) (191,645)	
	e) Administrative Expenses f) Discount Rate	Ф	(184,334) 7.30%	Φ	7.30%	
	•	\$		\$		
	g) Expected Return	Ф	37,246,843	Ф	38,771,239	
4.	Pension Expense under GASB 68					
	a) Service Cost	\$	6,102,724	\$	6,553,990	
	b) Interest Cost	\$	55,717,989	\$	57,240,373	
	c) Expected Investment Return	\$	(37,246,843)	\$	(38,771,239)	
	d) Employee Contributions	\$	(1,078,192)	\$	(1,248,941)	
	e) Administrative Expenses	\$	184,334	\$	191,645	
	f) Plan Changes	\$	-	\$	-	
	g) Amortization of:					
	i) Liability (Gain)/Loss	\$	9,300,043	\$	(533,030)	
	ii) Asset (Gain)/Loss	\$	(4,617,254)	\$	4,237,129	
	iii) Assumption Changes	\$	14,795,577	\$	2,598,273	
	h) Total Expense/(Income)	\$	43,158,378	\$	30,268,200	

E. GASB 67 and 68 Reports (continued)GASB 68 Reporting – Amortization of Deferred Inflows/Outflows – 2018 Fiscal Year

The following table illustrates the amortization bases included in the Deferred Inflows/Outflows as of the Measurement Date

		Period		Balar		
Date			Remaining at		Remaining at	Annual Payment
Established	Type of Base	Original	Fiscal Year End	Original	Fiscal Year End	for Fiscal Year
7/1/2014	Liability (Gain)/Loss	4.18	0.00	\$ 59,325,855	\$ 0	\$ 2,554,703
7/1/2014	Asset (Gain)/Loss	5.00	0.00	\$ (39,760,297)	\$ 0	\$ (7,952,060)
7/1/2015	Liability (Gain)/Loss	3.97	0.00	\$ 17,960,374	\$ 0	\$ 4,388,302
7/1/2015	Asset (Gain)/Loss	5.00	1.00	\$ 15,253,464	\$ 3,050,692	\$ 3,050,692
7/1/2015	Assumption Changes	3.97	0.00	\$ 44,875,785	\$ 0	\$ 10,964,613
7/1/2016	Liability (Gain)/Loss	3.89	0.89	\$ (8,841,025)	\$ (2,022,754)	\$ (2,272,757)
7/1/2016	Asset (Gain)/Loss	5.00	2.00	\$ 35,037,599	\$ 14,015,039	\$ 7,007,520
7/1/2016	Assumption Changes	3.89	0.89	\$ 26,747,943	\$ 6,119,709	\$ 6,876,078
7/1/2017	Liability (Gain)/Loss	3.89	1.89	\$ 2,181,777	\$ 1,060,041	\$ 560,868
7/1/2017	Asset (Gain)/Loss	5.00	3.00	\$ (26,553,956)	\$ (15,932,374)	\$ (5,310,791)
7/1/2017	Assumption Changes	3.89	1.89	\$ (7,951,953)	\$ (3,863,545)	\$ (2,044,204)
7/1/2018	Liability (Gain)/Loss	3.86	2.86	\$ 15,706,057	\$ 11,637,130	\$ 4,068,927
7/1/2018	Asset (Gain)/Loss	5.00	4.00	\$ (7,063,075)	\$ (5,650,460)	\$ (1,412,615)
7/1/2018	Assumption Changes	3.86	2.86	\$ (3,863,511)	\$ (2,862,601)	\$ (1,000,910)
	Total Charges			\$ 123,055,037	\$ 5,550,877	\$ 19,478,366

GASB 68 Reporting – Amortization of Deferred Inflows/Outflows – 2018 Fiscal Year (continued)

Deferred Inflows/Outflows

The following table illustrates the Deferred Inflows and Outflows under GASB 68

		Deferred Outflows		Deferred Inflows	
1. Difference between actual and expected experience					
a) Measurement Date June 30, 2016 – Experience	\$	-	\$	(2,022,754)	
b) Measurement Date June 30, 2016 - Assumption Changes	\$	6,119,709	\$	-	
c) Measurement Date June 30, 2017 – Experience	\$	1,060,041	\$	-	
d) Measurement Date June 30, 2017 - Assumption Changes	\$	-	\$	(3,863,545)	
e) Measurement Date June 30, 2018 - Experience	\$	11,637,130	\$	-	
f) Measurement Date June 30, 2018 – Assumption Changes	\$	-	\$	(2,862,601)	
2. Difference between expected and actual earnings on plan investments					
a) Measurement Date June 30, 2015	\$	3,050,692	\$	-	
b) Measurement Date June 30, 2016	\$	14,015,039	\$	-	
c) Measurement Date June 30, 2017	\$	-	\$	(15,932,374)	
d) Measurement Date June 30, 2018	\$	<u> </u>	\$	(5,650,460)	
3. Total, Before Contributions	\$	35,882,611	\$	(30,331,734)	
4. Contributions made after the Measurement Date		6,126,592	\$_		
5. Total, After Contributions		42,009,203	\$	(30,331,734)	

E. GASB 67 and 68 Reports (continued)GASB 68 Reporting – Amortization of Deferred Inflows/Outflows – 2019 Fiscal Year

The following table illustrates the amortization bases included in the Deferred Inflows/Outflows as of the Measurement Date

		Period		Bala		
Date			Remaining at		Remaining at	Annual Payment
Established	Type of Base	Original	Fiscal Year End	Original	Fiscal Year End	for Fiscal Year
7/1/2015	Asset (Gain)/Loss	5.00	0.00	\$ 15,253,464	\$ 0	\$ 3,050,692
7/1/2016	Liability (Gain)/Loss	3.89	0.00	\$ (8,841,025)	\$ 0	\$ (2,022,754)
7/1/2016	Asset (Gain)/Loss	5.00	1.00	\$ 35,037,599	\$ 7,007,519	\$ 7,007,519
7/1/2016	Assumption Changes	3.89	0.00	\$ 26,747,943	\$ 0	\$ 6,119,709
7/1/2017	Liability (Gain)/Loss	3.89	0.89	\$ 2,181,777	\$ 499,173	\$ 560,868
7/1/2017	Asset (Gain)/Loss	5.00	2.00	\$ (26,553,956)	\$ (10,621,583)	\$ (5,310,791)
7/1/2017	Assumption Changes	3.89	0.89	\$ (7,951,953)	\$ (1,819,341)	\$ (2,044,204)
7/1/2018	Liability (Gain)/Loss	3.86	1.86	\$ 15,706,057	\$ 7,568,203	\$ 4,068,927
7/1/2018	Asset (Gain)/Loss	5.00	3.00	\$ (7,063,075)	\$ (4,237,845)	\$ (1,412,615)
7/1/2018	Assumption Changes	3.86	1.86	\$ (3,863,511)	\$ (1,861,691)	\$ (1,000,910)
7/1/2019	Liability (Gain)/Loss	3.85	2.85	\$ (12,089,275)	\$ (8,949,204)	\$ (3,140,071)
7/1/2019	Asset (Gain)/Loss	5.00	4.00	\$ 4,511,621	\$ 3,609,297	\$ 902,324
7/1/2019	Assumption Changes	3.85	2.85	\$ (1,833,841)	\$ (1,357,519)	\$ (476,322)
	Total Charges		•	\$ 31,241,825	\$ (10,162,991)	\$ 6,302,372

GASB 68 Reporting – Amortization of Deferred Inflows/Outflows – 2019 Fiscal Year (continued)

Deferred Inflows/Outflows

The following table illustrates the Deferred Inflows and Outflows under GASB 68

	Deferred Outflows		 Deferred Inflows
Difference between actual and expected experience			
a) Measurement Date June 30, 2017 – Experience	\$	499,173	\$ -
b) Measurement Date June 30, 2017 – Assumption Changes	\$	-	\$ (1,819,341)
c) Measurement Date June 30, 2018 – Experience	\$	7,568,203	\$ -
d) Measurement Date June 30, 2018 – Assumption Changes	\$	-	\$ (1,861,691)
e) Measurement Date June 30, 2019 – Experience	\$	-	\$ (8,949,204)
f) Measurement Date June 30, 2019 – Assumption Changes	\$	-	\$ (1,357,519)
2. Difference between expected and actual earnings on plan investments			
a) Measurement Date June 30, 2016	\$	7,007,519	\$ -
b) Measurement Date June 30, 2017	\$	-	\$ (10,621,583)
c) Measurement Date June 30, 2018	\$	-	\$ (4,237,845)
d) Measurement Date June 30, 2019	\$	3,609,297	\$ <u>-</u>
3. Total, Before Contributions	\$	18,684,192	\$ (28,847,183)
4. Contributions made after the Measurement Date		6,353,698	\$
5. Total, After Contributions	\$	25,037,890	\$ (28,847,183)

Sensitivity

The following table illustrates the impact of interest rate sensitivity on the Net Pension Liability for the Fiscal Year Ending June 30, 2019:

	1% Decrease 6.30%	Current Rate 7.30%	1% Increase 8.30%
1. Total Pension Liability	\$ 891,597,040	\$ 800,485,487	\$ 724,431,385
2. Plan Fiduciary Net Position	\$ 553,239,562	\$ 553,239,562	\$ 553,239,562
3. Net Pension Liability	\$ 338,357,478	\$ 247,245,925	\$ 171,191,823

Valuation Date: Actuarial liabilities and assets are calculated as of the Fiscal Year end date.

The following table illustrates the impact of interest rate sensitivity on the Net Pension Liability for the Fiscal Year Ending June 30, 2018:

_	1% Decrease 6.30%	Current Rate 7.30%	1% Increase 8.30%
1. Total Pension Liability	\$ 897,271,387	\$ 804,507,184	\$ 727,158,192
2. Plan Fiduciary Net Position	\$ 543,245,785	\$ 543,245,785	\$ 543,245,785
3. Net Pension Liability	\$ 354,025,602	\$ 261,261,399	\$ 183,912,407

Valuation Date: Actuarial liabilities and assets are calculated as of the Fiscal Year end date.

Changes in Net Pension Liability and Related Ratios

Fiscal Year Ending	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Total Pension Liability										
Service Cost	N/A	N/A	N/A	N/A	8,924,073	4,890,358	5,399,272	5,822,919	6,102,724	6,553,990
Interest Cost	N/A	N/A	N/A	N/A	47,098,448	52,377,230	55,903,452	55,442,502	55,717,989	57,240,373
Changes in Benefit Terms	N/A	N/A	N/A	N/A	0	0	0	0	0	0
Differences between expected and										
actual experience	N/A	N/A	N/A	N/A	59,325,855	17,960,374	(8,841,025)	2,181,777	15,706,057	(12,089,275)
Changes in assumptions	N/A	N/A	N/A	N/A	0	44,875,785	26,747,943	(7,951,953)	(3,863,511)	(1,833,841)
Benefit Payments	N/A	N/A	N/A	N/A	(42,913,000)	(46,916,787)	(50,446,550)	(51,375,532)	(52,626,957)	(53,892,944)
Net Change in Total Pension										
Liability	N/A	N/A	N/A	N/A	72,435,376	73,186,960	28,763,092	4,119,713	21,036,302	(4,021,697)
Total Pension Liability (Beginning)	N/A	N/A	N/A	N/A	604,965,741	677,401,117	750,588,077	779,351,169	783,470,882	804,507,184
Total Pension Liability (Ending)	N/A	N/A	N/A	604,965,741	677,401,117	750,588,077	779,351,169	783,470,882	804,507,184	800,485,487
Plan Fiduciary Net Position										
Contributions-Employer	N/A	N/A	N/A	N/A	24,934,000	21,106,136	21,122,557	27,918,136	29,143,382	28,569,807
Contributions-Employee	N/A	N/A	N/A	N/A	239,000	392.884	602.287	851.744	1,078,192	1,248,941
Net Investment Income	N/A	N/A	N/A	N/A	75,303,000	24,472,345	2,872,187	61,002,008	44,309,918	34,259,618
Benefit Payments	N/A	N/A	N/A	N/A	(42,913,000)	(46,916,787)	(50,446,550)	(51,375,532)	(52,626,957)	(53,892,944)
Administrative Expense	N/A	N/A	N/A	N/A	(732,000)	(1,480,245)	(1,610,866)	(129,434)	(184,334)	(191,645)
Other	N/A	N/A	N/A	N/A	(613)	0	0	Ó	Ó	0
Net Change in Fiduciary Net					, ,					
Position	N/A	N/A	N/A	N/A	56,830,387	(2,425,667)	(27,460,385)	38,266,922	21,720,200	9,993,777
Plan Fiduciary Net Position (Beginning	N/A	N/A	N/A	N/A	456,314,327	513,144,714	510,719,047	483,258,662	521,525,584	543,245,785
Plan Fiduciary Net Position (Ending)	N/A	N/A	N/A	456,314,327	513,144,714	510,719,047	483,258,662	521,525,584	543,245,785	553,239,562
Net Pension Liability (Ending)	N/A	N/A	N/A	148,651,414	164,256,403	239,869,030	296,092,507	261,945,298	261,261,399	247,245,925

Valuation Date: Actuarial liabilities and assets are calculated as of the Fiscal Year end date.

E. GASB 67 and 68 Reports (continued) Schedule of Net Pension Liability

Fiscal Year Ending	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Total Pension Liability	N/A	N/A	N/A	N/A	677,401,117	750,588,077	779,351,169	783,470,882	804,507,184	800,485,487
Plan Fiduciary Net Position	N/A	N/A	N/A	N/A	513,144,714	510,719,047	483,258,662	521,525,584	543,245,785	553,239,562
Net Pension Liability (Ending)	N/A	N/A	N/A	N/A	164,256,403	239,869,030	296,092,507	261,945,298	261,261,399	247,245,925
Net Position as a % of Pension Liability	N/A	N/A	N/A	N/A	75.75%	68.04%	62.01%	66.57%	67.53%	69.11%
Covered Employee Payroll	N/A	N/A	N/A	N/A	103,529,519	95,186,942	90,860,364	94,767,845	101,270,528	98,453,547
Net Pension Liability as a % of Payroll	N/A	N/A	N/A	N/A	158.66%	252.00%	325.88%	276.41%	257.98%	251.13%

Valuation Date: Actuarial liabilities and assets are calculated as of the Fiscal Year end date.

Actuarially Determined Contribution

Fiscal Year Ending	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Actuarially Determined										_
Contribution	N/A	N/A	N/A	N/A	24,385,017	21,525,928	26,475,652	29,260,334	28,394,739	28,796,913
Contributions made	N/A	N/A	N/A	N/A	24,385,017	21,106,136	21,122,557	27,918,136	29,143,382	28,569,807
Contribution Deficiency/(Excess)	N/A	N/A	N/A	N/A	0	419,792	5,353,095	1,342,198	(748,643)	227,106
Covered Employee Payroll	N/A	N/A	N/A	N/A	\$103,529,519	\$ 95,186,942	\$ 90,860,364	\$ 94,767,845	\$ 101,270,528	\$ 98,453,547
Contributions as a percent of covered employee payroll	N/A	N/A	N/A	N/A	23.55%	22.61%	29.14%	30.88%	28.04%	29.25%

Notes to schedule:

Actuarial liabilities and assets are calculated as of July 1 immediately following the end of the Fiscal Year in which contributions are reported.

Methods and Assumptions used to determine contribution rates:

Measurement Date: July 1

Actuarial Cost Method: Projected Unit Credit

Asset Valuation Method: Assets smoothed over a 5 year period beginning in 2016. Valued using Market Value prior to 2016.

Amortization Method: Contributions based on greater of 20 year level dollar open amortization method and 30 year level dollar closed amortization method

Salary Increases: 4.50% General Inflation: 2.00%

Investment Rate of Return: 7.30% in 2016–2019, 7.65% in 2015, 7.95% in 2014

Cost of Living: N/A

Mortality Rates: Aggregate 2006 base rates from the RP-2014 mortality study projected generationally from 2006 with Scale MP-2018 for the year 2019

F. Estimated 10-Year Benefit Pay-Out Projections

Figures Shown in Thousands

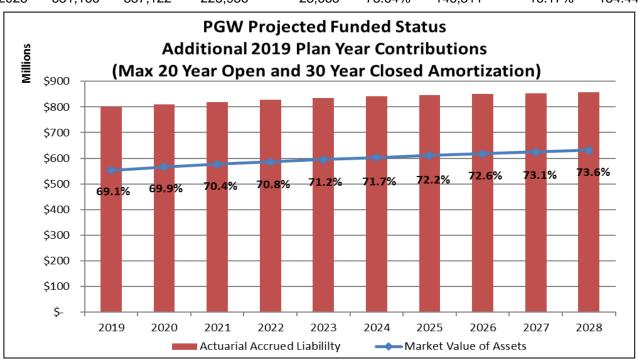
Plan Year Beginning <u>July 1</u>	Expected Annual Benefit Pay-Out During <u>Plan Year</u>	Expected PGW Contributions During Plan Year	Expected Employee Contributions <u>During Plan Year</u>	Expected Benefits Paid from Plan <u>Assets</u>
2019	\$56,484	\$29,227	\$1,310	\$25,947
2020	57,826	26,472	1,414	29,940
2021	58,897	25,601	1,539	31,757
2022	59,820	25,263	1,677	32,880
2023	60,756	24,911	1,826	34,019
2024	61,610	24,347	1,975	35,288
2025	62,414	23,910	2,113	36,391
2026	63,078	23,959	2,268	36,851
2027	63,639	23,792	2,434	37,413
2028	64,133	23,665	2,601	37,867

Note: The above projected pay-outs recognized expected mortality, termination, and incidence of disability and assume all benefits will commence at Assumed Retirement Date. No assumption has been made regarding possible retirements prior to Assumed Retirement Date or anticipation of new entrants. Investment returns assumed to be 7.30% per year. Covered payroll projected to increase by 4.5% per year. Expected PGW contributions calculated assuming contributions made based on greater of 20 year open amortization policy and 30 year closed amortization policy. PGW has indicated they will contribute \$29.227 million during valuation year 7/1/2019 which is reflected in the expected PGW contribution figures shown above. Expected employee contributions assume 50% of new employees select the PGW defined benefit pension plan and employee contribution rate remains 6% of pay.

G. Schedule of Prospective Funded Status

G. Schedule of Prospective Funded Status – Additional Contribution for 7/1/2019 Plan Year (Funding Policy - Max 20 Year Open and 30 Year Closed Amortization) (\$ thousands)

Actuarial Valuation Date	Market Value of Assets	Total Pension Liability	Net Pension Liability	Mid-Year Contribution	Funded Ratio	Covered Payroll	Contribution as % of Covered Payroll	NPL as a % of Covered Payroll
7/1/2019	\$553,240	\$800,485	\$247,246	\$29,227 ¹	69.11%	\$98,454	29.69%	251.13%
7/1/2020	566,732	810,868	244,136	26,472	69.89%	102,884	25.73%	237.29%
7/1/2021	577,070	820,021	242,951	25,601	70.37%	107,514	23.81%	225.97%
7/1/2022	586,280	828,134	241,853	25,263	70.80%	112,352	22.49%	215.26%
7/1/2023	594,998	835,087	240,088	24,911	71.25%	117,408	21.22%	204.49%
7/1/2024	603,173	840,859	237,686	24,347	71.73%	122,691	19.84%	193.73%
7/1/2025	610,629	845,662	235,033	23,910	72.21%	128,212	18.65%	183.32%
7/1/2026	617,485	850,051	232,566	23,959	72.64%	133,982	17.88%	173.58%
7/1/2027	624,365	853,912	229,547	23,792	73.12%	140,011	16.99%	163.95%
7/1/2028	631,166	857,122	225,956	23,665	73.64%	146,311	16.17%	154.44%



¹ PGW has expressed an intention to contribute \$29.227 million during valuation year 7/1/2019. Investment returns assumed to be 7.30% per year.

Covered payroll projected to increase by 4.5% per year.

Projections calculated assuming contributions made based on policy stated on this page.

H. Distribution of Inactive Participants by Age and Years of Retirement

1. Receiving Benefits

Years R	Years Receiving Benefits as of July 1, 2019												
								Annual B	enefits				
<u>Age</u>	<u>0-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	<u>20-24</u>	<u>25+</u>	<u>Total</u>	<u>Total</u>	<u>Average</u>				
15-44	0	0	0	0	0	0	0	\$0	\$0				
45-49	2	3	0	0	0	0	5	84,397	16,879				
50-54	41	6	2	0	0	0	49	1,764,142	36,003				
55-59	164	59	13	4	0	2	242	7,347,190	30,360				
60-64	190	191	50	15	7	2	455	14, 123, 196	31,040				
65-69	80	140	104	93	11	4	432	11,422,980	<i>26,44</i> 2				
70-74	28	78	67	99	53	6	331	7,964,076	24,061				
75-79	22	23	26	42	84	8	205	4,154,598	20,266				
80-84	19	20	5	17	97	24	182	3,591,186	19,732				
85-89	11	21	14	12	29	63	150	2,165,619	14,437				
90+	5	12	10	11	17	72	127	1,477,483	11,634				
Total	562	553	291	293	298	181	2,178	54,094,867	24,837				
	Average Age: 70.85 Average Years Receiving Benefits: 12.50												

2. Vested Terminated

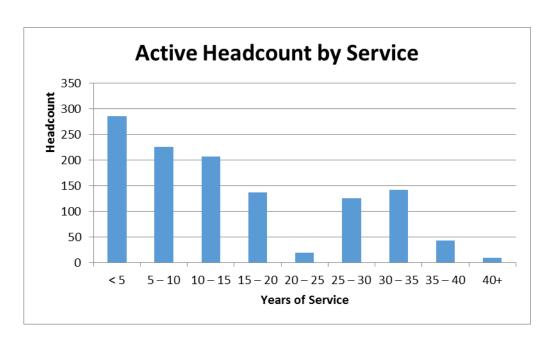
		Annual Benefits					
<u>Age</u>	<u>Number</u>	<u>Total</u>	<u>Average</u>				
15-44	109	\$845,166	\$7,754				
45-49	35	429,911	12,283				
50-54	85	985,370	11,593				
55-59	60	735,962	12,266				
60-64	23	299,224	13,010				
65+	5	<i>59,463</i>	11,893				
Total	317	\$3,355,095	\$10,584				

I. Distribution of Active Participants by Age and Service

(Showing Number of Employees and Average Earnings)

<u>Age</u>	<u>00-00</u>	<u>1-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	<u>20-24</u>	<u>25-29</u>	<u>30-34</u>	<u>35-39</u>	<u>40+</u>	<u>Total</u>	<u>Earnings</u> <u>Total</u>	<u>Average</u>
15-19	3	-	-	-	-	-	-	-	-	-	3	0	0
	36,535	-	-	-	-	-	-	-	-	-	-		
20-24	21	23	1	-	-	-	-	-	-	-	45	2,201,920	48,932
	42,282	54,439	61,904	-	-	-	-	-	-	-	48,932		
25-29	18	51	34	2	-	-	-	-	-	-	105	6,783,664	64,606
	44,872	60,177	80,504	84,897	-	-	-	-	-	-	64,606		
30-34	12	48	82	50	3	-	-	_	-	-	195	14,635,078	75,052
	44,864	60,304	81,573	84,684	92,980	-	-	-	-	-	75,052		
35-39	3	21	37	44	27	-	-	-	-	-	132	11,100,996	84,098
	45,046	67,499	85,453	87,668	93,675	-	-	-	-	-	84,098		
40-44	5	20	23	37	31	1	3	_	_	_	120	10,021,608	83,513
	55,537	69,709	84,955	89,404	88,868	59,272	91,225	-	-	-	83,513	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
45-49	3	21	20	18	26	_	26	5	_	_	119	10,079,302	84,700
	74,694	63,540	86,228	83,497	93,533	-	94,047	83,260	-	-	84,700	,	
50-54	3	17	8	29	28	8	36	60	5	_	194	17,403,402	89,708
00 04	57,032	63,711	91,065	89,133	90,270	101,539	87,953	97,458	96,437	-	89,708	17,400,402	00,700
55-59	2	10	11	12	16	6	38	52	17	3	167	14,805,666	88,657
30-39	78,617	70,826	86,397	79,044	90,185	108,211	85,160	91,508	90,853	136,679	88,657	14,000,000	00,007
60-64	1	2	6	11	4	2	20	22	10	3	04	0.000.005	00 500
00-04	76,092	55,321	70,947	11 90,297	75,773	3 109,493	89,926	102,189	19 132,448	87,402	91 99,590	9,062,665	99,590
05.00			0	2	0		0	0		0	00	4 770 000	00.007
65-69	-	2 69,219	70,218	75,888	2 98,601	1 177,777	3 72,494	3 79,885	1 97,534	2 133,464	20 88,667	1,773,330	88,667
70								·				470.0	
70+	-	-	1 222,717	1 78,507	-	-	-		95,015	1 80,070	4 119,077	476,309	119,077
			LLL,, , , ,	. 0,007					55,576	55,5.0	, , 0, 0 / /		
	71	215	226	207	137	19	126	142	43	9	1,195	98,453,547	82,388
Total	47,675	62,336	83,479	86,498	90,991	106,690	88,391	95, 141	110,134	113,249	82,388		

I. Distribution of Active Participants by Service (continued)



<u>Service</u>	Active <u>Headcount</u>
< 5	286
5 – 10	226
10 – 15	207
15 – 20	137
20 – 25	19
25 – 30	126
30 – 35	142
35 – <i>40</i>	43
40+	9
Total	1,195

J. Data Reconciliation

		Actives	Term Vested	Retiree*	Total
1. Participants as of 7/1/2018		1,213	323	2,193	3,729
a.	New Participants	71	0	0	71
b.	Return from Retirement	0	0	0	0
C.	Retirements	(49)	(17)	66	0
d.	Surviving Spouses	0	0	0	0
e.	Rehires	0	0	0	0
f.	Terminations	(11)	11	0	0
g.	Nonvested Terminations	(30)	0	0	(30)
h.	Deaths w/ Beneficiary	0	0	(27)	(27)
i.	New Beneficiary	0	0	27	27
j.	Deaths w/o Beneficiary	(5)	0	(84)	(89)
k.	Data Corrections	6	0	2	8
I.	New QDRO	<u>0</u>	<u>0</u>	<u>1</u>	<u>1</u>
m.	Total Increase / (Decrease)	(18)	(6)	(15)	(39)
2. Actual	Participants as of 6/30/2019	1,195	317	2,178	3,690

^{*}Includes Surviving Spouses and Alternate Payees

K. Actuarial Methods and Assumptions

1. Cost Methods

The Cost Method is called the Entry Age Normal Cost Method. The Normal Cost is calculated for each participant as the contribution required, as a level percentage of compensation over the participant's entire period of credited service, to provide his or her projected pension benefits. This contribution is assumed to be payable over a period commencing on the date on which the participant first met the funding eligibility conditions and ending on the assumed retirement date. That percentage, applied to the current year compensation, yields the current year Normal Cost for that participant. The total Normal Cost is the aggregate of the individual Normal Costs. The Plan Sponsor's Normal Cost is the total Normal Cost less that part of the total participant contributions due to be made during the year which is expected to be available at assumed retirement date.

The Plan Sponsor's Accrued Actuarial Liability, as of any date, is determined as the excess of the total present value of benefits for both active and non-active lives, over the total present value of both future normal costs and future employee contributions. This is also equal to the accumulated total of past Normal Costs, assuming this cost method and these assumptions, for this group of participants.

Each year actuarial gains and losses occur since actuarial experience under the Plan will vary from the actuarial assumptions. All gains and losses will be determined each year and amortized from date of inception.

2. Asset Valuation Technique

The Actuarial Asset Value is equal to the value of fund assets as reported by the City of Philadelphia with no adjustments.

3. Accounting Information

GASB Statement 67

- Measurement Date: June 30, 2019
- Valuation Date: June 30, 2019

GASB Statement 68

- Measurement Date: June 30, 2019
- Valuation Date: June 30, 2019

K. Actuarial Methods and Assumptions (continued)

4. Actuarial Assumptions

(Unless otherwise specified, the same assumptions have been used for the determination of the Contribution Range and Accumulated Plan Benefits)

a. Mortality:

Healthy Lives: The aggregate 2006 base rates from the RP-2014 mortality study projected generationally from 2006 with Scale MP-2018:

Percentage of Healthy, Pre-Commencement Participants Expected to Die in the Next Year Prior to Applying Generational Improvement Scale

<u>Age</u>	<u>Males</u>	<u>Females</u>	<u>Age</u>	<u>Males</u>	<u>Females</u>
20	.0510%	.0202%	45	.1207%	.0758%
25	.0545%	.0186%	50	.1979%	.1151%
30	.0470%	.0209%	55	.2967%	.1735%
35	.0557%	.0301%	60	.4954%	.2795%
40	.0750%	.0471%	65	.9486%	.4482%

Disabled Lives: Disabled mortality rates are used for anticipated future disablements and current disabled lives. Sample percentages are as follows:

Percentage of Disabled Participants Expected to Die in the Next Year

<u>Age</u>	<u>Males</u>	<u>Females</u>	<u>Age</u>	<u>Males</u>	<u>Females</u>
20	2.4583%	0.9650%	<i>4</i> 5	4.3033%	2.3988%
25	2.7457%	1.1974%	50	4.8004%	2.7961%
30	3.0661%	1.4843%	55	5.3120%	3.2594%
35	3.4184%	1.7654%	60	5.8118%	3.7993%
40	3.8373%	2.0579%	65	6.3669%	4.4287%

b. <u>Interest</u>: 7.30%, compounded annually.

K. Actuarial Methods and Assumptions (continued)

c. Turnover:

A scale varying by age and service with illustrative annual rates of turnover as follows:

	Y	ears	of	Ser	vice
--	---	------	----	-----	------

Age	0	1	2	3	4	5
20	23.2%	17.4%	14.4%	11.6%	8.8%	5.8%
25	18.8%	14.0%	11.8%	9.4%	7.0%	4.6%
30	14.8%	11.0%	9.2%	7.4%	5.6%	3.6%
35	11.2%	8.4%	7.0%	5.6%	4.2%	2.8%
40	8.8%	6.6%	5.6%	4.4%	3.4%	2.2%
45	7.2%	5.4%	4.6%	3.6%	2.8%	1.8%
50	5.2%	3.8%	3.2%	2.6%	2.0%	1.2%
<i>5</i> 5	0	0	0	0	0	0

d. Disability

A scale varying by age with illustrative annual rates of disability as follows:

<u>Percentage of Participants Expected</u> to Become Disabled in the Next Year

<u>Age</u>	<u>Percentage</u>
30	0.0600%
35	0.0700%
40	0.1100%
<i>4</i> 5	0.2200%
50	0.4600%
55	1.0200%
60	1.6200%

e. Salary Increase

Determination of Contribution Range Salaries are assumed to increase by an amount equal to 4.5% of the salary for the current year.

Accumulated Plan Benefits

Past salaries are discounted at the same rate as described above. Future salaries are assumed to remain at the same level as on the valuation date.

K. Actuarial Methods and Assumptions (continued)

f. Retirement Age Retirements are assumed to occur at the following ages:

	<u>Service</u>	Service		Service	Service
<u>Age</u>	<u>< 30</u>	<u>> 30</u>	<u>Age</u>	<u>< 30</u>	<u>> 30</u>
55	10%	15%	63	25%	50%
56	10%	15%	64	25%	50%
57	10%	15%	65	50%	50%
58	10%	15%	66	50%	50%
59	10%	15%	67	50%	50%
60	10%	15%	68	50%	50%
61	10%	30%	69	50%	50%
62	25%	50%	<i>70</i> +	100%	100%

g. <u>Salary</u>

Current year salary is assumed to be the greater of the annualized 2019 Taxable Gross Wages based on actual wages through June 30, 2019 and the annual pay rate as provided by Philadelphia Gas Works.

5. Change in Actuarial Assumptions

The mortality table generational projection scale was changed from MP-2017 to Scale MP-2018 to better reflect actual and future mortality experience.

L. Summary of the Principal Plan Provisions

Any ambiguities or questionable provisions of this summary should be resolved by reference to the official Plan Document. This summary is not intended to be a source document, but merely an instrument of convenience for the administration of the Plan.

- 1. Effective Date: March 24, 1967, most recently amended as of June 26, 2002.
- 2. <u>Eligibility</u>: Full-time employees hired prior to March 24, 1967 who will have completed 15 years of Credited Service at normal retirement occurring prior to January 1, 1979 or 5 years Credited Service at normal retirement occurring on or after January 1, 1979 became participants on March 24, 1967. Employees hired on or after March 24, 1967 will become participants on their date of employment. A full-time employee is one who works regularly for 20 or more hours each week.
- 3. <u>Contribution</u>: Philadelphia Gas Works pays the entire cost of the Plan for all employees hired prior to May 21, 2011. Union employees hired on or after May 21, 2011 and Non-Union employees hired on or after December 21, 2011 have the option to participate in the Philadelphia Gas Works Pension Plan and contribute 6% of applicable wages to the Plan, or they may elect to participate in the 401(a) Plan with Philadelphia Gas Works contributing 5.5% of applicable wages.
- 4. <u>Credited Service</u>: Years and months of service credited prior to March 24, 1967 and years and months of continuous service thereafter; continuous service is reduced for periods of approved unpaid leaves (except for military leave) in excess of one month. Layoff periods are also excluded and, if in excess of one year, when approved, the employee is considered terminated.
- <u>Final Average Compensation</u>: Average of the five highest consecutive calendar years' earnings during the last 10 years of Credited Service. Compensation includes overtime, bonus, shift differential, and any other special compensation. Per the amendment approved on November 14, 1986, compensation includes amounts deferred under the PGW Employees' Deferred Compensation Plan.

6. Retirement Dates

- a. <u>Normal Retirement</u>: First of the month next following attainment of age 65 and completion of 5 years of Credited Service.
- <u>Early Retirement</u>: First of any month after attaining age 55 and completing 15 years of Credited Service, or after completing 30 years of credited service.
- c. <u>Late Retirement</u>: First of any month after Normal Retirement up to age 70.
- d. <u>Disability Retirement</u>. If permanently disabled and has attained age 45 and completed at least 15 years of Credited Service, provided age plus years of Credited Service equals at least 65. Or after completion of at least 20 years of Credited Service regardless of age, upon recommendation of the Medical Director of the Company.

L. Summary of the Principal Plan Provisions (continued)

7. Benefit Formula

- a. Normal Retirement: The monthly equivalent of the greater of (i) or (ii) below, payable for life.
 - 1.25% of the first \$6,600 of Final Average Earnings plus 1.75% of the excess of Final Average Earnings over \$6,600, times Credited Service; maximum of 60% of the highest annual earnings during any one of the last 10 years of Credited Service; applicable to all participants.
 - ii. 2% of total earnings received during period of Credited Service plus 22.5% of the first \$1,200 of such amount; applicable only to participants who were employees on or prior to March 24, 1967.
- b. <u>Early Retirement</u>: Same as 7(a) above, based upon Final Average Earnings and Credited Service as of the early retirement date and reduced by the percentage described in 8 below depending upon Credited Service as of the early retirement date.
- c. <u>Late Retirement</u>: Same as Normal Retirement Benefit based on Final Average Compensation and Credited Service as of Late Retirement Date.
- d. <u>Disability Retirement</u>: Same as Normal Retirement Benefit, based on Final Average Compensation and Credited Service as of date of disability.
- 8. <u>Benefits Upon Termination of Employment Vesting</u>: All participants who terminate after having completed at least 5 years of Credited Service are entitled to a benefit as described in 7(a) above, based upon Final Average Compensation and Credited Service as of the date of termination.

<u>Early Commencement of Payments</u>: A former participant who is entitled to a deferred benefit may elect to have his benefit commence on the first day of any month between his 55th and 65th birthdays. Such benefit will be reduced by 3% for each of the first 5 years and 5% for each of the next 5 years by which commencement of payments precedes age 65. If the participant has completed 25 years of Credited Service, his benefit will be unreduced for the first 3 years and reduced by 3% for each of the next 2 years and by 5% for the following 5 years by which commencement of payments precedes age 65.

If a participant has completed 30 or more years of credited service, payments are not reduced.

L. Summary of the Principal Plan Provisions (continued)

9. Death Benefits

a. <u>Before Retirement</u>: Spouses of deceased active participants or of former participants are entitled to vested benefits, provided such participants died after having attained age 45 and completed at least 15 years of Credited Service and whose age plus years of Credited Service equals at least 65 years or who have completed at least 15 years of Credited Service regardless of age.

The benefit payable is an amount for the spouse's remaining lifetime equal to the amount the beneficiary of the participant would have received had the participant retired due to disability on the day preceding his death and elected the 100% Contingent Annuitant Option.

- b. After Retirement: None except as provided by election of an optional form.
- 10. Normal Form of Benefits: Life annuity
- 11. <u>Optional Benefit Forms</u>: 100%, 75%, or 50% Contingent Annuitant option, 75% or 50% Joint and Last Survivor option.

About Aon

Aon empowers organizations and individuals to secure a better future through innovative retirement, health, and talent solutions. We advise and design a wide range of solutions that enable our clients' success. Our teams of experts help clients navigate the risks and opportunities to optimize financial security; redefine health solutions for greater choice, affordability, and wellbeing; and achieve sustainable growth by driving business performance through people performance. We serve more than 20,000 clients through our 15,000 professionals located in 50 countries around the world.

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