



## Quarterly Investment Report September 30, 2018

### Assets Under Management

As at September 30, 2018                      \$13,958.2 million  
 As at June 30, 2018                            \$13,833.9 million

### Asset Mix at September 30, 2018

	Market Value (\$ millions)	Allocation	Long-Term Policy	Policy Ranges
Money Market	\$83.9	0.6%	0.5%	0 - 3%
Fixed Income	\$2,992.7	21.4%	20.5%	11 - 30%
Equities	\$7,859.0	56.3%	55.0%	37 - 65%
Alternatives	\$2,947.7	21.1%	24.0%	15 - 30%
Overlays	\$74.9	0.5%	0.0%	
<b>Fund Total</b>	<b>\$13,958.2</b>	<b>100%</b>	<b>100%</b>	

*Please see the PSPP Statement of Investment Policies & Guidelines for more information.*



# Public Service Pension Plan

## Investment Performance ending September 30, 2018

Asset Category	Asset / Sub-asset Category Benchmark	2018		Calendar Years		
		QTD	YTD	2017	2016	2015
<b>Total</b>	<b>Fund Net</b>	<b>0.79</b>	<b>3.61</b>	<b>11.28</b>	<b>6.95</b>	<b>9.79</b>
	Policy	0.84	4.04	9.68	6.59	7.99
	CPI (one month lag)	<b>0.60</b>	<b>2.21</b>	<b>2.10</b>	<b>1.18</b>	<b>1.36</b>
<b>Money Market</b>	<b>Money Market<sup>1</sup></b>	<b>0.40</b>	<b>0.74</b>	<b>0.97</b>	<b>0.88</b>	<b>0.90</b>
	FTSE TMX Canada 91 day T-Bill Index	0.31	0.92	0.56	0.51	0.63
<b>Fixed Income</b>	<b>Asset Category Total</b>	<b>(1.13)</b>	<b>0.10</b>	<b>4.36</b>	<b>3.32</b>	<b>4.63</b>
	Asset Category Index Total	(1.48)	(0.79)	3.75	1.66	3.52
	<b>Universe Bonds</b>	<b>(0.60)</b>	<b>0.36</b>	<b>3.27</b>	<b>3.35</b>	<b>4.13</b>
	FTSE TMX Canada Universe Bond Index	(0.96)	(0.35)	2.52	1.66	3.52
	<b>Long Bonds</b>	<b>(2.29)</b>	<b>(1.11)</b>	<b>7.61</b>	-	-
	FTSE TMX Canada Long Term All Government Bond Index	(2.60)	(1.79)	6.50	-	-
	<b>Private Debt &amp; Loan</b>	<b>0.54</b>	<b>2.87</b>	<b>2.33</b>	<b>4.42</b>	<b>6.13</b>
FTSE TMX Canada Universe Bond Index	(0.96)	(0.35)	2.52	1.66	3.52	
<b>Private Mortgages</b>	<b>(0.34)</b>	<b>1.45</b>	<b>2.48</b>	<b>2.15</b>	<b>4.99</b>	
	FTSE TMX Canada Universe Bond Index	(0.96)	(0.35)	2.52	1.66	3.52
<b>Equity</b>	<b>Asset Category Total</b>	<b>1.35</b>	<b>4.88</b>	<b>14.80</b>	<b>7.61</b>	<b>12.38</b>
	Asset Category Index Total	1.55	5.46	13.24	7.81	9.75
	<b>Canadian Equity</b>	<b>(1.00)</b>	<b>0.44</b>	<b>10.16</b>	<b>19.92</b>	<b>(7.45)</b>
	S&P/TSX Composite Index	(0.57)	1.36	9.10	21.08	(8.32)
	<b>Global Developed Equity</b>	<b>2.41</b>	<b>7.46</b>	<b>15.75</b>	<b>2.71</b>	<b>20.93</b>
	MSCI World (C\$) Index	2.89	8.28	13.10	1.98	18.89
	<b>Global Equity Master Pool (MSMP)</b>	<b>2.63</b>	<b>7.76</b>	<b>16.56</b>	<b>3.38</b>	<b>20.56</b>
	MSCI World (C\$) Index	3.16	8.77	14.36	3.79	18.89
	<b>LSH</b>	<b>0.44</b>	<b>9.87</b>	<b>10.71</b>	<b>4.68</b>	-
	MSCI World (C\$) Index	3.16	8.77	14.36	3.79	-
	<b>Global Minimum Variance Pool</b>	<b>2.18</b>	<b>6.97</b>	<b>14.63</b>	-	-
	MSCI World Minimum Volatility (C\$) Index	2.27	7.12	10.23	-	-
	<b>Emerging Markets</b>	<b>(3.33)</b>	<b>(5.72)</b>	<b>30.40</b>	<b>8.66</b>	<b>6.18</b>
	MSCI Emerging Markets (C\$) Index	(2.81)	(4.76)	28.26	7.34	2.04
	<b>Private Equity</b>	<b>8.46</b>	<b>13.61</b>	<b>(1.37)</b>	<b>1.16</b>	<b>26.94</b>
	<b>Core Private Equity</b>	<b>8.91</b>	<b>14.98</b>	<b>(0.60)</b>	<b>15.66</b>	<b>36.89</b>
	<b>Relationship Investing</b>	<b>(0.24)</b>	<b>16.61</b>	<b>(15.57)</b>	<b>(60.18)</b>	<b>(55.01)</b>
<b>Venture Capital</b>	<b>7.36</b>	<b>10.74</b>	<b>(3.31)</b>	<b>(21.00)</b>	<b>11.53</b>	
Private Equity Index <sup>2</sup>	2.03	6.70	8.65	8.35	17.10	
<b>Alternatives</b>	<b>Asset Category Total</b>	<b>1.21</b>	<b>3.78</b>	<b>9.50</b>	<b>6.43</b>	<b>8.51</b>
	Asset Category Index Total	1.33	5.21	6.70	5.81	8.92
	<b>Real Estate</b>	<b>1.09</b>	<b>4.07</b>	<b>8.77</b>	<b>4.96</b>	<b>6.62</b>
	Real Estate Benchmark <sup>3</sup>	1.28	5.40	7.03	5.81	8.05
	<b>Canadian Real Estate</b>	<b>1.39</b>	<b>3.74</b>	<b>8.49</b>	<b>5.42</b>	<b>5.09</b>
	IPD Canadian Benchmark: Portfolios Valued Over C\$1.5bn	1.49	5.12	7.03	5.81	8.05
	<b>Foreign Real Estate</b>	<b>(0.97)</b>	<b>6.34</b>	<b>10.94</b>	<b>1.49</b>	<b>19.02</b>
	MSCI Global Region Property Index <sup>4</sup>	(0.38)	7.42	7.03	5.81	8.05
	<b>Private Infrastructure</b>	<b>0.04</b>	<b>1.09</b>	<b>9.24</b>	<b>9.47</b>	<b>14.75</b>
	Private Infrastructure Index <sup>5</sup>	1.44	4.86	6.15	5.85	9.13
	<b>Renewable Resources</b>	<b>7.46</b>	<b>12.66</b>	<b>17.49</b>	<b>10.05</b>	<b>4.20</b>
Renewable Resources Index <sup>6</sup>	1.44	4.86	6.15	5.85	9.13	
<b>Overlays</b>	<b>Overlays</b>	<b>1.63</b>	<b>3.02</b>	<b>5.01</b>	<b>(5.14)</b>	<b>80.19</b>

1. Money Market (CCITF) return is affected by a timing mismatch of accrued income and market values; as such, CCITF pool returns are reflected.

2. Private Equity Index: CPI 1 month lagged + 7.0% (4-year rolling average). Prior to January 1, 2016, the benchmark was MSCI All Country World Index.

3. Real Estate Benchmark: A blend of the IPD Large Institutional Index & MSCI Global Region Property Index. Prior to January 9, 2018, the benchmark was the IPD Canadian Benchmark Index.

4. MSCI Global Regional Property Index: Prior to January 9, 2018, the benchmark was the IPD Canadian Benchmark Index.

5. Private Infrastructure Index: CPI 1 month lagged + 4.5% (4-year rolling average). Prior to November 1, 2015, the benchmark was 50% FTSE TMX Canada Real Return Bond/50% MSCI ACWI.

6. Renewable Resources Index: CPI 1 month lagged + 4.5% (4-year rolling average). Prior to November 1, 2015, the benchmark was 50% FTSE TMX Canada Real Return Bond/50% MSCI ACWI.



# Public Service Pension Plan

## Investment Performance ending September 30, 2018

Asset Category	Asset / Sub-asset Category Benchmark	Annualized Years				
		1	2	3	4	10
<b>Total</b>	<b>Fund Net</b>	<b>8.94</b>	<b>8.22</b>	<b>8.93</b>	<b>8.46</b>	<b>8.54</b>
	Policy	8.37	7.18	8.19	7.84	8.00
	CPI (one month lag)	<b>2.84</b>	<b>2.11</b>	<b>1.78</b>	<b>1.65</b>	<b>1.50</b>
<b>Money Market</b>	<b>Money Market<sup>1</sup></b>	<b>1.29</b>	<b>1.05</b>	<b>0.98</b>	<b>1.02</b>	<b>1.23</b>
	FTSE TMX Canada 91 day T-Bill Index	1.15	0.81	0.69	0.71	0.84
<b>Fixed Income</b>	<b>Asset Category Total</b>	<b>2.96</b>	<b>0.50</b>	<b>2.96</b>	<b>3.74</b>	<b>5.42</b>
	Asset Category Index Total	2.20	(0.30)	1.85	2.70	4.51
	<b>Universe Bonds</b>	<b>2.29</b>	<b>0.24</b>	<b>2.64</b>	<b>3.44</b>	<b>5.30</b>
	FTSE TMX Canada Universe Bond Index	1.66	(0.68)	1.60	2.51	4.44
	<b>Long Bonds</b>	<b>4.25</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	FTSE TMX Canada Long Term All Government Bond Index	3.41	-	-	-	-
	<b>Private Debt &amp; Loan</b>	<b>2.89</b>	<b>2.81</b>	<b>3.74</b>	<b>4.46</b>	<b>-</b>
	FTSE TMX Canada Universe Bond Index <sup>2</sup>	1.66	(0.68)	1.60	2.51	-
	<b>Private Mortgages</b>	<b>2.66</b>	<b>0.62</b>	<b>2.29</b>	<b>3.41</b>	<b>5.47</b>
FTSE TMX Canada Universe Bond Index	1.66	(0.68)	1.60	2.51	4.44	
<b>Equity</b>	<b>Asset Category Total</b>	<b>10.96</b>	<b>11.41</b>	<b>11.24</b>	<b>10.19</b>	<b>10.18</b>
	Asset Category Index Total	11.10	10.61	10.93	9.73	9.37
	<b>Canadian Equity</b>	<b>5.11</b>	<b>7.37</b>	<b>9.47</b>	<b>4.91</b>	<b>7.46</b>
	S&P/TSX Composite Index	5.87	7.52	9.70	4.87	6.30
	<b>Global Developed Equity</b>	<b>14.29</b>	<b>13.30</b>	<b>11.93</b>	<b>12.07</b>	<b>11.48</b>
	MSCI World (C\$) Index <sup>3</sup>	14.31	11.96	10.93	11.66	10.43
	<b>Global Equity Master Pool (MSMP)</b>	<b>14.44</b>	<b>14.74</b>	<b>12.49</b>	<b>12.88</b>	<b>-</b>
	MSCI World (C\$) Index	14.97	13.70	12.17	12.59	-
	<b>LSH</b>	<b>9.14</b>	<b>13.12</b>	<b>-</b>	<b>-</b>	<b>-</b>
	MSCI World (C\$) Index	14.97	13.70	-	-	-
	<b>Global Minimum Variance Pool</b>	<b>14.88</b>	<b>10.40</b>	<b>-</b>	<b>-</b>	<b>-</b>
	MSCI World Minimum Volatility (C\$) Index	12.75	8.13	-	-	-
	<b>Emerging Markets</b>	<b>1.85</b>	<b>9.65</b>	<b>11.90</b>	<b>9.48</b>	<b>8.17</b>
	MSCI Emerging Markets (C\$) Index	2.52	9.30	11.00	7.28	7.71
	<b>Private Equity</b>	<b>13.02</b>	<b>8.95</b>	<b>5.82</b>	<b>10.26</b>	<b>6.98</b>
	<b>Core Private Equity</b>	<b>14.62</b>	<b>12.03</b>	<b>12.79</b>	<b>17.07</b>	<b>11.62</b>
	<b>Relationship Investing</b>	<b>16.80</b>	<b>(9.14)</b>	<b>(29.50)</b>	<b>(43.27)</b>	<b>-</b>
<b>Venture Capital</b>	<b>9.19</b>	<b>(1.36)</b>	<b>(6.79)</b>	<b>1.61</b>	<b>-</b>	
Private Equity Index <sup>4</sup>	8.65	8.56	10.98	11.23	-	
<b>Alternatives</b>	<b>Asset Category Total</b>	<b>9.80</b>	<b>8.33</b>	<b>8.82</b>	<b>7.90</b>	<b>6.77</b>
	Asset Category Index Total	7.38	6.95	7.21	7.43	7.01
	<b>Real Estate</b>	<b>9.79</b>	<b>7.79</b>	<b>7.43</b>	<b>7.16</b>	<b>8.23</b>
	Real Estate Benchmark <sup>5</sup>	8.07	7.43	7.38	7.35	8.16
	<b>Canadian Real Estate</b>	<b>9.49</b>	<b>7.66</b>	<b>7.09</b>	<b>6.52</b>	<b>8.28</b>
	IPD Canadian Benchmark: Portfolios Valued Over C\$1.5bn	7.78	7.29	7.29	7.28	1.49
	<b>Foreign Real Estate</b>	<b>11.81</b>	<b>8.62</b>	<b>9.83</b>	<b>11.98</b>	<b>-</b>
	MSCI Global Region Property Index <sup>6</sup>	10.14	8.46	8.06	7.86	-
	<b>Private Infrastructure</b>	<b>7.33</b>	<b>7.12</b>	<b>11.19</b>	<b>9.16</b>	<b>6.44</b>
	Private Infrastructure Index <sup>7</sup>	6.15	6.06	6.93	7.21	8.43
	<b>Renewable Resources</b>	<b>21.10</b>	<b>19.02</b>	<b>14.06</b>	<b>11.42</b>	<b>7.64</b>
Renewable Resources Index <sup>8</sup>	6.15	6.06	6.93	7.21	8.07	
<b>Overlays</b>	<b>Overlays</b>	<b>10.44</b>	<b>15.48</b>	<b>5.82</b>	<b>17.52</b>	<b>2.88</b>

1. Money Market (CCITF) return is affected by a timing mismatch of accrued income and market values; as such, CCITF pool returns are reflected.

2. Private Debt & Loan Benchmark: Prior to April 1, 2014, the benchmark was FTSE/TMX Short Term Overall Bond Index. 2014 performance reflects a blend of the prior and current benchmark.

3. Global Developed Equity Index: MSCI World. Prior to July 1, 2011, the benchmark was MSCI All Country World Index.

4. Private Equity Index: CPI 1 month lagged + 7.0% (4-year rolling average). Prior to January 1, 2016, the benchmark was MSCI All Country World Index.

5. Real Estate Index: A blend of the IPD Large Institutional Index & MSCI Global Region Property Index. Prior to January 9, 2018, the benchmark was the IPD Canadian Benchmark Index.

6. MSCI Global Regional Property Index: Prior to January 9, 2018, the benchmark was the IPD Canadian Benchmark Index.

7. Private Infrastructure Index: CPI 1 month lagged + 4.5% (4-year rolling average). Prior to November 1, 2015, the benchmark was 50% FTSE TMX Canada Real Return Bond/50% MSCI ACWI. Prior to July 1, 2010, the benchmark was CPI + 600 bps.

8. Renewable Resources Index: CPI 1 month lagged + 4.5% (4-year rolling average). Prior to November 1, 2015, the benchmark was 50% FTSE TMX Canada Real Return Bond/50% MSCI ACWI. Prior to July 1, 2010, the benchmark was CPI + 400 bps.