

**June 2019 Interest Rates**

Issue Date	Amount of Debentures (\$0)	Debtenture Rate (%)	Note Rate (%)	Comparable Treasury Market Rate (%)	Spread Over Treasury Rate (%)	CDC Fee Borrower Fee	0.625 0.9375	1.000 0.9375	0.625 0.914	1.000 0.914	0.625 0.697	1.000 0.697	0.625 0.642	1.000 0.642	0.625 0.368	1.000 0.368	0.625 0.958	1.000 0.958	0.625 0.731	1.000 0.731	0.625 0.682	1.000 0.682	0.625 0.395	1.000 0.395												
																									0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
																									0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
<b>10-Year Debentures</b>																							<b>Refinance</b>													
Jan 17	7,325	2.42	2.51256	1.88	0.54	4.950	5.500	4.916	N/A	4.598	5.148	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
Mar 17	14,862	2.63	2.73012	2.11	0.52	5.170	5.720	5.135	5.685	4.817	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.867	N/A	N/A	N/A	N/A													
May 17	17,713	2.33	2.41974	1.92	0.41	4.868	5.420	4.833	5.385	4.514	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
July 17	13,552	2.32	2.40909	1.95	0.37	4.850	5.401	4.816	5.366	4.497	5.048	N/A	N/A	N/A	N/A	N/A	N/A	5.431	4.547	N/A	N/A	N/A	N/A													
Sept 17	11,457	1.98	2.05698	1.63	0.35	4.506	5.059	4.471	5.024	4.152	4.704	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.202	N/A	N/A	N/A	N/A													
Nov 17	22,237	2.29	2.37819	2.02	0.27	N/A	5.376	4.790	5.341	4.470	5.022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.520	5.072	N/A	N/A	N/A													
Jan 18	12,628	2.55	2.64746	2.33	0.22	5.091	5.643	5.057	5.608	4.738	5.289	4.657	5.208	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
Mar 18	15,380	3.00	3.11270	2.63	0.37	N/A	N/A	5.510	N/A	5.192	5.741	5.112	N/A	N/A	N/A	N/A	N/A	N/A	5.242	N/A	5.171	N/A	N/A													
May 18	22,720	3.18	3.29883	2.81	0.37	5.730	6.278	5.695	6.244	5.378	5.927	5.298	5.847	N/A	N/A	N/A	N/A	N/A	5.428	N/A	5.356	5.905	N/A													
July 18	9,642	3.19	3.30867	2.73	0.46	5.732	N/A	5.698	6.245	5.382	5.929	5.302	5.848	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.360	5.907	N/A													
Sept 18	14,550	3.14	3.25713	2.76	0.38	N/A	6.230	5.649	6.196	5.332	5.879	5.252	5.799	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
Nov 18	7,101	3.47	3.59817	3.07	0.40	N/A	N/A	5.987	N/A	5.670	N/A	5.590	6.137	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.649	N/A	N/A	N/A												
Jan 19	11,713	2.95	3.06111	2.54	0.41	5.496	N/A	N/A	N/A	5.144	5.693	5.064	5.613	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A												
Mar 19	11,198	2.92	3.02985	2.45	0.47	N/A	N/A	N/A	N/A	5.110	5.658	5.029	5.578	4.628	5.177	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A												
May 19	10,911	2.66	2.76116	2.22	0.44	N/A	N/A	5.166	N/A	4.848	5.398	4.767	5.317	4.365	4.915	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.955												
<b>20-Year Debentures</b>																							<b>Refinance</b>													
Jan 17	276,384	2.80	2.84789	2.40	0.40	4.879	5.337	4.850	5.308	4.585	5.043	N/A	N/A	N/A	N/A	N/A	N/A	4.904	5.362	4.626	N/A	N/A	N/A	N/A												
Feb 17	360,199	2.82	2.86826	2.38	0.44	4.901	5.360	4.872	5.331	4.607	5.066	N/A	N/A	N/A	N/A	N/A	N/A	4.926	5.385	4.649	5.107	N/A	N/A	N/A												
Mar 17	333,267	3.04	3.09120	2.58	0.46	5.121	5.579	5.092	5.550	4.827	5.285	N/A	N/A	N/A	N/A	N/A	N/A	5.146	N/A	4.869	N/A	N/A	N/A	N/A												
April 17	310,817	2.84	2.88846	2.35	0.49	4.919	5.377	4.891	5.349	4.625	5.084	N/A	N/A	N/A	N/A	N/A	N/A	4.944	N/A	4.667	N/A	N/A	N/A	N/A												
May 17	361,901	2.88	2.92925	2.39	0.49	4.962	5.421	4.934	5.392	4.668	5.127	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.446	4.710	5.168	N/A	N/A	N/A												
June 17	338,673	2.81	2.85812	2.20	0.61	4.891	5.349	4.862	5.320	4.596	5.055	N/A	N/A	N/A	N/A	N/A	N/A	4.916	N/A	4.638	5.097	N/A	N/A	N/A												
July 17	305,239	2.98	3.03041	2.38	0.60	5.059	5.517	5.031	5.488	4.766	5.223	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.807	5.265	N/A	N/A	N/A												
Aug 17	356,964	2.75	2.79734	2.22	0.53	4.832	5.291	4.803	5.262	4.537	4.996	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.579	5.038	N/A	N/A	N/A												
Sept 17	333,569	2.59	2.63502	2.05	0.54	4.670	5.129	4.641	5.100	4.376	4.835	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.417	4.876	N/A	N/A	N/A												
Oct 17	262,864	2.85	2.89859	2.34	0.51	4.929	5.387	4.900	5.358	4.635	5.093	N/A	N/A	N/A	N/A	N/A	N/A	4.954	N/A	4.676	N/A	N/A	N/A	N/A												
Nov 17	351,575	2.79	2.83785	2.34	0.45	4.871	5.330	4.842	5.301	4.577	5.036	4.510	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.618	5.077	N/A	N/A	N/A												
Dec 17	275,056	2.78	2.82766	2.33	0.45	4.860	N/A	4.831	5.290	4.566	5.024	4.499	4.957	N/A	N/A	N/A	N/A	N/A	N/A	4.607	5.066	N/A	N/A	N/A												
Jan 18	265,812	2.92	2.96978	2.56	0.36	5.002	5.461	4.974	5.432	4.708	5.167	4.641	5.100	N/A	N/A	N/A	N/A	N/A	N/A	4.750	N/A	4.690	5.148	N/A												
Feb 18	324,595	3.22	3.27350	2.87	0.35	5.300	5.757	5.272	5.729	5.007	5.464	4.940	5.397	N/A	N/A	N/A	N/A	N/A	N/A	5.048	5.506	4.989	5.446	N/A												
Mar 18	282,611	3.20	3.25328	2.85	0.35	5.281	5.738	5.252	5.709	4.987	5.445	4.920	5.378	N/A	N/A	N/A	N/A	N/A	N/A	5.029	N/A	4.969	N/A	N/A												
April 18	329,067	3.31	3.36454	2.82	0.49	5.389	5.845	5.360	5.817	5.096	5.552	5.029	5.486	N/A	N/A	N/A	N/A	N/A	N/A	5.137	N/A	5.078	N/A	N/A												
May 18	375,113	3.50	3.55703	2.96	0.54	5.582	6.038	5.553	6.010	5.289	5.745	5.222	5.678	N/A	N/A	N/A	N/A	N/A	N/A	5.330	5.787	5.270	5.727	N/A												
June 18	307,029	3.60	3.65812	2.97	0.63	5.680	6.136	5.651	6.107	5.387	5.843	5.320	5.776	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.369	5.825	N/A												
July 18	263,122	3.54	3.59736	2.83	0.71	5.618	6.074	5.590	6.046	5.326	5.782	5.259	5.715	N/A	N/A	N/A	N/A	N/A	N/A	5.643	N/A	N/A	5.308	5.764												
Aug 18	344,334	3.58	3.63801	2.94	0.64	5.661	N/A	5.632	6.089	5.368	5.824	5.301	5.758	N/A	N/A	N/A	N/A	N/A	N/A	5.410	N/A	5.350	N/A	N/A												
Sept 18	278,852	3.53	3.58727	2.89	0.64	5.609	6.065	5.580	6.037	5.317	5.773	5.250	5.706	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.298	5.754	N/A	N/A												
Oct 18	259,791	3.77	3.83031	3.18	0.59	5.852	6.308	5.823	6.279	5.559	6.015	5.492	5.948	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.541	5.997	N/A	N/A												
Nov 18	248,506	3.87	3.93129	3.22	0.65	5.950	6.405	5.921	6.376	5.658	6.113	5.591	6.046	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.640	6.095	N/A	N/A												
Dec 18	244,169	3.54	3.59738	2.84	0.70	5.619	N/A	5.590	6.046	5.327	5.783	5.260	5.716	4.926	5.382	N/A	N/A	N/A	N/A	N/A	5.308	N/A	N/A	N/A												
Jan 19	231,767	3.37	3.42549	2.71	0.66	5.452	5.909	5.423	N/A	5.159	5.616	5.092	5.549	4.758	5.215	N/A	N/A	N/A	N/A	N/A	5.140	N/A	4.791	N/A												
Feb 19	129,980	3.26	3.31400	2.67	0.59	5.340	5.797	5.311	5.768	5.047	5.504	4.980	5.437	4.646	5.103	N/A	N/A	N/A	N/A	N/A	5.029	N/A	4.679	N/A												
Mar 19	177,872	3.20	3.25325	2.65	0.55	5.280	5.737	5.251	N/A	4.987	5.444	4.920	5.377	4.586	5.043	N/A	N/A	N/A	N/A	5.028	N/A	4.969	N/A	4.619												
April 19	199,341	2.98	3.03050	2.49	0.49	5.063	N/A	5.034	5.492	4.769	5.227	4.701	5.160	4.367	4.825	N/A	N/A	N/A	N/A	N/A	4.750	5.209	4.400	N/A												
May 19	196,908	2.88	2.92913	2.43	0.45	4.962	5.420	4.933	5.391	4.668	5.126	4.600	5.059	4.265	4.724	N/A	N/A	N/A	N/A	N/A	4.649	N/A	4.298	N/A												
June 19	166,575	2.60	2.64515	2.10	0.50	4.680	5.139	4.651	5.110	4.385	4.844	4.318	4.777	3.983	4.442	N/A	N/A	N/A	N/A	N/A	4.367	N/A	4.016	N/A												
<b>25-Year Debentures</b>																							<b>Refinance</b>													
July 18	27,536	3.68	3.72405	2.83	0.85	N/A	N/A	N/A	N/A	N/A	N/A	5.320	5.758	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A												
Aug 18	29,238	3.71	3.75439	2.94	0.77	N/A	N/A	N/A	N/A	N/A	N/A	5.351	5.789	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.398	N/A	N/A	N/A												
Sept 18	58,273	3.65	3.69390	2.89	0.76	N/A	N/A	N/A	N/A	N/A	N/A	5.290	5.728	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.337															