

Journey Time/Energy Consumption Test Result

1. Wellington Station to Paraparaumu Station (Dry track condition)

No	Station	Running Time [Sec]	Motoring Energy [kWh]		Regenerative & Rheostatic Energy [kWh]	
			TCU1	TCU2	TCU1	TCU2
1	Wellington					
		197	4.01	4.05	1.38	1.37
2	Kaiwharawhara					
		417	22.36	23.04	4.15	4.12
3	Takapu Road					
		79	3.2	3.26	2.37	2.35
4	Redwood					
		49	3.2	3.24	1.87	1.86
5	Tawa					
		73	4.81	4.84	0.98	1.08
6	Linden					
		86	4.21	4.25	2.67	2.65
7	Kenepuru					
		163	3.3	3.65	2.17	2.45
8	Porirua					
		260	9.52	9.59	3.36	3.33
9	Paremata					
		77	5.81	5.73	2.37	2.45
10	Mana					
		93	3.51	3.46	1.38	1.37
11	Plimmerton					
		339	17.05	17.4	1.38	1.37
12	Pukerua Bay					
		80	2.1	2.17	2.17	2.06
13	Muri					
		563	6.21	6.23	7.22	7.07
14	Paekakariki					
		494	15.34	15.82	4.45	4.51
15	Paraparaumu					
Total		3230	104.63	106.73	37.92	38.04
			Motoring	211.36	Braking	75.96

* Total time include in dwell time as 20second for each station without start/end station.

2. Paraparaumu Station to Wellington Station (Dry track condition)

No	Station	Running Time [Sec]	Motoring Energy [kWh]		Regenerative & Rheostatic Energy [kWh]	
			TCU1	TCU2	TCU1	TCU2
1	Paraparaumu					
		386	10.73	10.88	0.69	0.68
2	Paekakariki					
		542	18.05	18.2	2.86	2.84
3	Muri					
		89	3.41	3.56	0.69	0.68
4	Pukerua Bay					
		338	2.9	2.76	8.2	7.26
5	Plimmerton					
		95	3.41	3.36	1.78	1.76
6	Mana					
		82	5.31	5.34	2.47	2.55
7	Paremata					
		271	8.92	8.9	4.45	4.31
8	Porirua					
		140	5.41	5.34	1.97	1.96
9	Kenepuru					
		81	5.31	6.33	2.07	2.16
10	Linden					
		80	5.61	5.14	1.97	1.86
11	Tawa					
		62	4.61	4.45	1.68	1.66
12	Redwood					
		74	4.61	4.64	1.68	1.57
13	Takapu Road					
		413	15.94	15.33	6.09	6.23
14	Kaiwharawhara					
		205	2.7	2.76	1.08	1.08
15	Wellington					
Total		3118	96.92	96.99	37.68	36.6
			Motoring	193.91	Braking	74.28

* Total time include in dwell time as 20second for each station without start/end station.

3. Wellington Station to Upper Hutt Station (Dry track condition)

No	Station	Running Time [Sec]	Motoring Energy [kWh]		Regenerative & Rheostatic Energy [kWh]	
			TCU1	TCU2	TCU1	TCU2
1	Wellington					
		277	4.41	4.45	1.68	1.66
2	Kaiwharawhara					
		134	5.41	5.44	2.17	2.16
3	Ngauranga					
		323	7.32	7.41	1.58	1.57
4	Petone					
		127	4.61	4.64	2.17	2.16
5	Ava					
		121	4.61	4.74	1.87	2.06
6	Woburn					
		81	4.31	4.55	1.97	2.06
7	Waterloo					
		74	4.61	4.64	2.17	2.16
8	Epuni					
		103	6.11	6.42	2.86	2.94
9	Naenae					
		100	4.01	4.35	0.29	0.39
10	Wingate					
		79	4.31	4.35	1.97	1.96
11	Taita					
		96	5.21	5.24	2.17	2.16
12	Pomare					
		113	5.41	5.24	2.27	2.25
13	Manor Park					
		172	7.12	7.41	2.27	2.25
14	Silverstream					
		100	4.71	4.45	0.19	0.29
15	Heretaunga					
		83	4.11	4.45	2.07	2.16
16	Trentham					
		122	5.71	5.73	2.47	2.35
17	Wallaceville					
		126	2.5	2.27	0.69	0.58
18	Upper Hutt					
Total		2,551	84.48	85.78	30.86	31.16
			Motoring	170.26	Braking	62.02

* Total time include in dwell time as 20second for each station without start/end station.

4. Upper Hutt Station to Wellington Station (Dry track condition)

No	Station	Running Time [Sec]	Motoring Energy [kWh]		Regenerative & Rheostatic Energy [kWh]	
			TCU1	TCU2	TCU1	TCU2
1	Upper Hutt					
		122	2	1.97	1.68	1.97
2	Wallaceville					
		134	4.21	4.05	3.26	3.04
3	Trentham					
		97	3.1	3.06	1.97	1.86
4	Heretaunga					
		92	5.11	5.04	2.96	2.94
5	Silverstream					
		172	4.5	4.35	2.47	2.45
6	Manor Park					
		112	4.41	4.35	2.76	2.65
7	Pomare					
		103	2.98	2.86	2.07	1.96
8	Taita					
		84	3.41	3.36	2.17	2.16
9	Wingate					
		90	3.81	3.75	2.37	2.35
10	Naenae					
		110	4.31	4.25	2.57	2.55
11	Epuni					
		83	3.41	3.26	1.97	2.06
12	Waterloo					
		92	3.51	3.56	2.07	2.06
13	Woburn					
		122	4.51	4.25	2.17	2.16
14	Ava					
		158	4.01	4.05	1.68	1.6
15	Petone					
		317	7.72	7.81	3.06	3.04
16	Ngauranga					
		142	4.41	4.25	2.07	1.96
17	Kaiwharawhara					
		267	2.3	2.37	0.59	0.58
18	Wellington					
Total		2,617	67.71	66.59	37.89	37.39
			Motoring	134.30	Braking	75.28

* Total time include in dwell time as 20second for each station without start/end station.

5. Wellington Station to Johnsonville Station (Dry track condition)

No	Station	Running Time [Sec]	Motoring Energy [kWh]		Regenerative & Rheostatic Energy [kWh]	
			TCU1	TCU2	TCU1	TCU2
1	Wellington					
		357	7.92	8.01	0.09	0.09
2	Wadeston					
		209	7.72	7.81	0	0
3	Crofton_Downs					
		98	2.9	2.76	0.19	0.19
4	Ngaio					
		78	2.9	2.86	0.19	0.19
5	Awarua street					
		96	4.51	4.84	0.39	0.39
6	Simla crescent					
		65	2.5	2.67	0.19	0.19
7	Box Hill					
		93	2.3	2.5	0.09	0.19
8	Khandallah					
		187	3.61	3.65	0.79	0.78
9	Raroa					
		120	0.8	0.69	1.48	1.37
10	Johnsonville					
Total		1468	35.16	35.79	3.41	3.39
			Motoring	70.95	Braking	6.8

* Total time include in dwell time as 20second for each station without start/end station.

6. Johnsonville Station to Wellington Station (Dry track condition)

No	Station	Running Time [Sec]	Motoring Energy [kWh]		Regenerative & Rheostatic Energy [kWh]	
			TCU1	TCU2	TCU1	TCU2
1	Johnsonville					
		112	3.51	3.46	0.29	0.29
2	Raroa					
		164	2.3	2.27	1.38	1.37
3	Khandallah					
		75	0.7	0.79	1.08	0.98
4	Box Hill					
		63	0.7	0.79	0.98	1.08
5	Simla Crescent					
		95	0.8	0.79	1.78	1.96
6	Awarua Street					
		68	0.7	0.69	1.18	1.27
7	Ngaio					
		89	0.5	0.49	0.98	1.08
8	Crofton Downs					
		243	0.5	0.49	2.76	2.65
9	Wadestown					
		402	1.1	1.07	3.05	2.54
10	Wellington					
Total		1527	10.81	10.84	13.48	13.22
			Motoring	21.65	Braking	26.7

* Total time include in dwell time as 27second for each station without start/end station.

7. Wellington Station to Paraparaumu Station (Wet track condition)

No	Station	Running Time [Sec]	Motoring Energy [kWh]		Regenerative & Rheostatic Energy [kWh]	
			TCU1	TCU2	TCU1	TCU2
1	Wellington					
		172	3	2.86	0.98	0.88
2	Kaiwharawhara					
		426	22.36	22.75	5.24	5.2
3	Takapu Road					
		79	3.3	3.26	2.37	2.45
4	Redwood					
		51	2.9	2.96	1.97	1.96
5	Tawa					
		75	4.51	4.64	2.86	2.84
6	Linden					
		84	3.81	3.85	2.47	2.45
7	Kenepuru					
		164	3.3	3.65	2.17	2.45
8	Porirua					
		249	11.23	11.17	3.75	3.63
9	Paremata					
		84	4.81	4.74	2.27	2.25
10	Mana					
		93	3.71	3.56	1.58	1.57
11	Plimmerton					
		339	17.7	18.1	1.87	1.96
12	Pukerua Bay					
		81	1.6	1.87	1.78	1.66
13	Muri					
		63	0.8	0.79	0.89	0.88
		512	6.82	6.82	6.82	6.67
14	Paekakariki					
		495	15.34	15.82	4.45	4.51
15	Paraparaumu					
Total		3227	105.19	106.84	41.47	41.36
			Motoring	212.03	Braking	82.83

* Total time include in dwell time as 20second for each station without start/end station.

8. Paraparaumu Station to Wellington Station (Wet track condition)

No	Station	Running Time [Sec]	Motoring Energy [kWh]		Regenerative & Rheostatic Energy [kWh]	
			TCU1	TCU2	TCU1	TCU2
1	Paraparaumu	391	11.90	11.90	0.39	0.49
		122	6.87	6.87	0	0
2	Paekakariki					
		422	13.84	13.84	1.28	1.27
3	Muri					
		86	3.29	3.29	0.69	0.68
4	Pukerua Bay					
		344	2.41	2.41	6.62	5.89
5	Plimmerton					
		93	3.44	3.44	1.78	1.76
6	Mana					
		87	4.35	4.35	2.27	2.25
7	Paremata					
		266	9.53	9.53	5.33	5.1
8	Porirua					
		145	5.22	5.22	2.07	2.06
9	Kenepuru					
		91	4.55	4.55	1.97	2.25
10	Linden					
		86	4.44	4.44	1.87	1.76
11	Tawa					
		67	3.86	3.86	1.68	1.57
12	Redwood					
		83	3.72	3.72	1.18	1.17
13	Takapu Road					
		446	16.60	16.60	7.41	7.07
14	Kaiwharawhara					
		153	2.70	2.70	1.18	1.17
15	Wellington					
Total		3142	96.71	96.71	35.72	34.49
			Motoring	193.42	Braking	70.21

* Total time include in dwell time as 20second for each station without start/end station.

9. Wellington Station to Upper Hutt Station (Wet track condition)

No	Station	Running Time [Sec]	Motoring Energy [kWh]		Regenerative & Rheostatic Energy [kWh]	
			TCU1	TCU2	TCU1	TCU2
1	Wellington	200	3.51	3.65	1.18	1.17
2	Kaiwharawhara	141	5.61	5.24	2.27	2.25
3	Ngauranga	322	8.02	8.11	1.68	1.57
4	Petone	131	4.91	4.55	0.29	0.39
5	Ava	136	3.71	3.95	0.49	0.58
6	Woburn	87	4.8	5	2.6	2.6
7	Waterloo	81	4.7	4.9	2.7	2.6
8	Epuni	132	4.61	5.04	0.79	0.78
9	Naenae	111	3.41	3.46	0.39	0.49
10	Wingate	103	3.2	3.65	0.39	0.39
11	Taita	110	4.71	5.34	0.29	0.49
12	Pomare	138	4.61	4.74	1.87	1.86
13	Manor Park	186	6.41	7.41	2.37	2.35
14	Silverstream	115	4.31	5.14	1.78	1.86
15	Heretaunga	103	3.61	3.56	0.79	0.68
16	Trentham	150	5.31	5.53	2.17	2.25
17	Wallaceville	117	2.5	2.76	0.79	0.78
18	Upper Hutt					
Total		2683	77.94	82.03	22.84	23.09
			Motoring	159.97	Braking	45.93

* Total time include in dwell time as 20second for each station without start/end station.

10. Upper Hutt Station to Wellington Station (Wet track condition)

No	Station	Running Time [Sec]	Motoring Energy [kWh]		Regenerative & Rheostatic Energy [kWh]	
			TCU1	TCU2	TCU1	TCU2
1	Upper Hutt					
		99	2.34	2.34	0.81	0.63
2	Wallaceville					
		131	4.31	4.31	2.86	2.75
3	Trentham					
		109	2.4	2.37	1.58	1.57
4	Heretaunga					
		112	3.46	3.46	2.17	2.06
5	Silverstream					
		184	4.94	4.94	2.76	2.55
6	Manor Park					
		110	4.32	4.5	2.7	2.7
7	Pomare					
		106	3.61	3.85	2.57	2.45
8	Taita					
		87	2.43	2.52	1.89	1.89
9	Wingate					
		99	3.71	3.69	2.27	2.25
10	Naenae					
		122	4.31	4.35	2.37	2.35
11	Epuni					
		89	2.8	2.8	1.68	1.66
12	Waterloo					
		96	3.3	3.36	1.87	1.86
13	Woburn					
		129	4.31	4.25	2.17	2.16
14	Ava					
		136	4.81	4.74	1.97	1.96
15	Petone					
		309	9.02	8.9	3.06	2.94
16	Ngauranga					
		140	4.59	4.59	2.7	2.61
17	Kaiwharawhara					
		286	2.52	2.61	0.99	0.99
18	Wellington					
Total		2664	67.18	67.58	36.42	35.38
			Motoring	134.76	Braking	71.80

* Total time include in dwell time as 20second for each station without start/end station.

11. Wellington Station to Johnsonville Station (Wet track condition)

No	Station	Running Time [Sec]	Motoring Energy [kWh]		Regenerative & Rheostatic Energy [kWh]	
			TCU1	TCU2	TCU1	TCU2
1	Wellington					
		341	7.92	7.81	0.39	0.39
2	Wadeston					
		241	7.62	7.61	0.09	0.09
3	Crofton_Downs					
		91	2.9	2.76	0.19	0.29
4	Ngaio					
		74	2.9	2.86	0.29	0.29
5	Awarua street					
		105	4.21	4.55	0.19	0.29
6	Simla crescent					
		63	2.4	2.57	0.19	0.29
7	Box Hill					
		93	2.8	3.06	0.39	0.39
8	Khandallah					
		179	4.31	4.35	1.38	1.37
9	Raroa					
		113	0.9	0.79	1.58	1.57
10	Johnsonville					
Total		1460	35.96	36.36	4.69	4.97
			Motoring	72.32	Braking	9.66

* Total time include in dwell time as 20second for each station without start/end station.

12. Johnsonville Station to Wellington Station (Wet track condition)

No	Station	Running Time [Sec]	Motoring Energy [kWh]		Regenerative & Rheostatic Energy [kWh]	
			TCU1	TCU2	TCU1	TCU2
1	Johnsonville					
		114	3.3	3.36	0.19	0.19
2	Raroa					
		168	2	1.97	1.18	1.17
3	Khandallah					
		72	0.9	0.98	1.18	1.17
4	Box Hill					
		62	0.7	0.79	1.08	1.17
5	Simla Crescent					
		80	1.2	1.2	2.47	2.45
6	Awarua Street					
		69	0.5	0.49	0.89	1
7	Ngaio					
		85	0.8	0.79	1.18	1.27
8	Crofton Downs					
		261	0.6	0.59	2.57	1.17
9	Wadestown					
		347	1.5	1.58	2.57	2.75
10	Wellington					
Total		1474	11.5	11.75	13.31	12.34
			Motoring	23.25	Braking	25.65

* Total time include in dwell time as 27second for each station without start/end station.