

Appendix E: Demographic and dwelling data

All participants

a) Installation groups

Installation groups	Frequency	Percent
Standard HEEUP installation	531	69.5
Community housing	171	22.4
Independent installation	45	5.9
Emergency replacement	16	2.1
Missing	1	0.1
Total	764	100.0

b) Postcodes where program was delivered

Postcodes	Frequency	Percent
3011	2	0.3
3012	5	0.7
3013	2	0.3
3015	3	0.4
3016	1	0.1
3018	1	0.1
3020	4	0.5
3021	7	0.9
3022	1	0.1
3023	2	0.3
3024	2	0.3
3025	1	0.1
3028	2	0.3
3029	3	0.4
3030	7	0.9
3031	21	2.7
3032	7	0.9
3033	2	0.3
3034	4	0.5
3037	7	0.9
3039	2	0.3
3040	3	0.4
3041	2	0.3
3042	4	0.5
3043	13	1.7
3044	7	0.9
3046	16	2.1

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3047	8	1.0
3048	6	0.8
3049	1	0.1
3054	2	0.3
3058	10	1.3
3059	3	0.4
3060	5	0.7
3061	1	0.1
3064	24	3.1
3066	1	0.1
3068	1	0.1
3070	3	0.4
3071	1	0.1
3072	8	1.0
3073	41	5.4
3075	4	0.5
3078	1	0.1
3079	5	0.7
3081	6	0.8
3082	3	0.4
3083	6	0.8
3084	4	0.5
3085	32	4.2
3088	5	0.7
3093	2	0.3
3094	1	0.1
3095	7	0.9
3099	2	0.3
3101	11	1.4
3102	1	0.1
3103	1	0.1
3106	2	0.3
3107	1	0.1
3108	1	0.1
3111	1	0.1
3121	1	0.1
3127	1	0.1
3128	1	0.1
3129	3	0.4
3130	11	1.4
3131	6	0.8
3132	2	0.3
3133	6	0.8

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3134	1	0.1
3135	1	0.1
3136	4	0.5
3138	1	0.1
3139	1	0.1
3140	5	0.7
3141	1	0.1
3144	1	0.1
3145	2	0.3
3146	1	0.1
3147	1	0.1
3149	4	0.5
3150	9	1.2
3151	3	0.4
3152	3	0.4
3153	2	0.3
3154	2	0.3
3155	3	0.4
3156	3	0.4
3158	2	0.3
3160	1	0.1
3162	1	0.1
3163	5	0.7
3165	3	0.4
3167	4	0.5
3168	2	0.3
3169	5	0.7
3170	2	0.3
3171	3	0.4
3172	5	0.7
3174	5	0.7
3175	4	0.5
3177	1	0.1
3181	1	0.1
3182	4	0.5
3183	2	0.3
3185	1	0.1
3186	2	0.3
3187	2	0.3
3188	3	0.4
3189	3	0.4
3190	1	0.1
3191	1	0.1

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3192	8	1.0
3193	4	0.5
3194	10	1.3
3195	11	1.4
3196	15	2.0
3197	6	0.8
3198	6	0.8
3199	24	3.1
3200	5	0.7
3201	3	0.4
3204	9	1.2
3216	2	0.3
3219	1	0.1
3226	1	0.1
3228	1	0.1
3337	5	0.7
3338	1	0.1
3340	2	0.3
3350	1	0.1
3352	1	0.1
3370	2	0.3
3377	1	0.1
3419	1	0.1
3429	14	1.8
3431	1	0.1
3434	5	0.7
3437	3	0.4
3442	6	0.8
3444	1	0.1
3448	1	0.1
3450	13	1.7
3451	8	1.0
3458	1	0.1
3460	1	0.1
3461	3	0.4
3463	1	0.1
3465	3	0.4
3472	1	0.1
3523	1	0.1
3550	8	1.0
3551	1	0.1
3555	3	0.4
3556	2	0.3

3564	1	0.1
3620	1	0.1
3630	1	0.1
3646	1	0.1
3666	1	0.1
3677	2	0.3
3723	1	0.1
3752	1	0.1
3757	1	0.1
3765	2	0.3
3793	1	0.1
3799	1	0.1
3802	4	0.5
3806	1	0.1
3810	1	0.1
3874	1	0.1
3910	5	0.7
3912	2	0.3
3915	5	0.7
3929	1	0.1
3930	2	0.3
3931	15	2.0
3933	1	0.1
3936	6	0.8
3939	9	1.2
3940	2	0.3
3942	1	0.1
3976	2	0.3
3977	8	1.0
Missing	3	0.4
Total	764	100.0

a) Participants' employment status (combined 'Not in the labour force' and 'Retired')

Employment status	Frequency	Percent
Employed - working full-time	24	3.1
Employed - working part-time	77	10.1
Employed - away from work	3	0.4
Retired / Not in the labour force	474	62.0
Conducting unpaid work (care/home duties)	40	5.2
Studying	8	1.0
Unable to work	73	9.6

Unemployed - looking for full-time work	20	2.6
Unemployed - looking for part-time work	30	3.9
Other	4	0.5
Missing	11	1.4
Total	764	100.0

b) Indigenous participants

Indigenous status	Frequency	Percent
Non-Indigenous	735	96.2
Aboriginal	9	1.2
Both Aboriginal and Torres Strait Islander	1	0.1
Not stated	6	0.8
Missing	13	1.7
Total	764	100.0

3) Household information:**a) Number of people in the home (mean: 2.18)**

Number of people in the home	Frequency	Percent
One	280	36.6
Two	270	35.3
Three	101	13.2
Four	50	6.5
Five	34	4.5
Six	13	1.7
Seven	5	0.7
Eight	2	0.3
Nine	2	0.3
Thirteen	1	0.1
Missing	6	0.8
Total	764	100.0

b) Age groups across all households (Please note: Due to some data entry errors total number in table 3a does not equal total number in table 3b)

Age groups of all household members	Frequency	Percent
Number of occupants aged 0-9	124	7.5
Number of occupants aged 10-19	168	10.2
Number of occupants aged 20-29	119	7.2
Number of occupants aged 30-39	103	6.3
Number of occupants aged 40-49	169	10.3
Number of occupants aged 50-59	205	12.5
Number of occupants aged 60-69	301	18.3
Number of occupants aged 70-79	262	15.9

Number of occupants aged 80-89	168	10.2
Number of occupants aged 90-99	27	1.6
Total	1646	100.0

c) Household income

Household income	Frequency	Percent
Nil income	2	0.3
\$200-\$299 (\$10400-\$15599)	4	0.5
\$300-\$399 (\$15600-\$20799)	43	5.6
\$400-\$599 (\$20800-\$31199)	176	23.0
\$600-\$799 (\$31200-\$41599)	160	20.9
\$800-\$999 (\$41600-\$51999)	167	21.9
\$1000-\$1249 (\$52000-\$64999)	56	7.3
\$1250-\$1499 (\$65000-\$77999)	66	8.6
\$1500-\$1999 (\$78000-\$103999)	39	5.1
\$2000-\$2499 (\$104000-\$129999)	20	2.6
\$2500-\$2999 (\$130000-\$155999)	3	0.4
\$3500-\$3999 (\$182000-\$207999)	1	0.1
\$4000-\$4999 (\$208000-\$259999)	1	0.1
Missing	26	3.4
Total	764	100.0

d) Household education

Household education	Frequency	Percent
Primary school	33	4.3
High school - Year 10	187	24.5
High school - Year 12	139	18.2
TAFE	127	16.6
Tertiary	238	31.2
Missing	40	5.2
Total	764	100.0

e) Language spoken at home

Language spoken at home	Frequency	Percent
English	268	35.1
Language other than English	41	5.4
Missing	455	59.6
Total	764	100.0

4) Dwelling information:**a) Home ownership**

Home ownership	Frequency	Percent
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Owned outright (Owned)	429	56.2
Owned with a mortgage (Mortgaged)	129	16.9
Rented	166	21.7
Being occupied under a life tenure scheme (Life Tenure)	1	0.1
Being purchased under a rent buy scheme (Rent Buy)	1	0.1
Other	1	0.1
Missing	37	4.8
Total	764	100.0

b) Ages of homes

Ages of homes	Frequency	Percent
0 - 4 years	4	0.5
5 - 9 years	23	3.0
10 - 14 years	91	11.9
15 - 19 years	83	10.9
20 - 29 years	90	11.8
30 - 39 years	119	15.6
40 - 49 years	115	15.1
50 - 59 years	78	10.2
60+ years	105	13.7
Missing	56	7.3
Total	764	100.0

c) Number of bedrooms (mean: 2.81) (one participant actually had 0 entered)

Number of bedrooms	Frequency	Percent
Zero	1	0.1
One	50	6.5
Two	204	26.7
Three	359	47.0
Four	116	15.2
Five	17	2.2
Six	1	0.1
Seven	1	0.1
Eight	1	0.1
Missing	14	1.8
Total	764	100.0

d) Number of bathrooms (mean: 1.38)

Number of bathrooms	Frequency	Percent
One	492	64.4
One and a half	1	0.1
Two	234	30.6
Three	20	2.6

Four	3	0.4
Missing	14	1.8
Total	764	100.0

5) Hot water system information:

a) Old hot water system

Old hot water system	Frequency	Percent
Electric	2	0.3
Electric Storage	2	0.3
Electric Storage (continuous tariff)	22	2.9
Electric Storage (off-peak tariff)	159	20.8
Electric (instantaneous)	4	0.5
Gas	9	1.2
Gas Storage	3	0.4
Natural Gas (storage tank)	430	56.3
Natural Gas (instantaneous)	85	11.1
LPG (instantaneous)	6	0.8
Solar (electric boosted)	11	1.4
Solar (gas boosted)	9	1.2
Solar (wood boosted)	1	0.1
Missing	21	2.7
Total	764	100.0

b) Hot water system upgrades

New hot water system	Frequency	Percent
Solar Gas	238	31.2
Gas Storage	193	25.3
Heat Pump	152	19.9
Instant Gas	149	19.5
Solar electric	32	4.2
Total	764	100.0

d) When would participants have replaced their hot water system?

Replacement time	Frequency	Percent
This year	60	7.9
1-2 years	56	7.3
3-4 years	6	0.8
5-6 years	2	0.3
If it broke down	529	69.2
Don't know	68	8.9
Missing	43	5.6
Total	764	100.0

e) What type of hot water system would participants have replaced their existing system with?

Replacement type	Frequency	Percent
Electric storage (off peak)	29	3.8
Electric storage (peak)	1	0.1
Gas storage	168	22.0
Heat pump	34	4.5
Instantaneous gas hot water	160	20.9
Solar - electric	24	3.1
Solar - gas	85	11.1
Replace it with a similar system to what I currently have	205	26.8
Other	6	0.8
Missing	52	6.8
Total	764	100.0

f) Cost aside, what would be the preferred hot water system replacement?

Replacement type (cost aside)	Frequency	Percent
Electric storage (off peak)	3	0.4
Gas storage	71	9.3
Heat pump	78	10.2
Instantaneous gas hot water	125	16.4
Solar - electric	33	4.3
Solar - gas	280	36.6
Replace it with a similar system to what I currently have	114	14.9
Other	4	0.5
Missing	56	7.3
Total	764	100.0

g) Age of hot water system

Age of hot water system	Frequency	Percent
0 - 2 years	13	1.7
3 - 5 years	24	3.1
6 - 8 years	34	4.5
9 - 12 years	165	21.6
13 - 16 years	238	31.2
17 - 20 years	81	10.6
21+ years	138	18.1
Missing	71	9.3
Total	764	100.0

6) Energy information:

a) Participants with controlled load (some participants had 'false' for controlled load but an entry for controlled load NMI or tariff, they are included as 'yes')

Controlled load	Frequency	Percent
No	675	88.4
Yes	70	9.2
Missing	19	2.5
Total	764	100.0

b) Participants' energy source (only based on entries in HWT and Int.Q. not on obtained NMIs/MIRNs)

Energy source	Frequency	Percent
Electricity only	89	11.6
Electricity and natural gas	653	85.5
Electricity and LPG	13	1.7
Electricity, natural gas and LPG	1	0.1
Missing	8	1.0
Total	764	100.0

c) Rooftop photovoltaics (only based on entries in Questionnaire and Int.Q. not on obtained energy data)

PV	Frequency	Percent
No	573	75.0
Yes	183	24.0
Missing	8	1.0
Total	764	100.0

Standard HEEUP installation

b) Postcodes with 5 or more installations

Postcodes	Frequency	Percent
3021	6	1.129943503
3030	6	1.129943503
3037	7	1.31826742
3043	11	2.071563089
3044	6	1.129943503
3046	11	2.071563089
3047	7	1.31826742
3058	8	1.506591337
3060	5	0.941619586
3064	11	2.071563089
3072	6	1.129943503
3073	11	2.071563089
3095	5	0.941619586
3130	10	1.883239171
3131	5	0.941619586
3133	5	0.941619586
3150	7	1.31826742
3169	5	0.941619586
3172	5	0.941619586
3174	5	0.941619586
3192	8	1.506591337
3193	4	0.753295669
3194	8	1.506591337
3195	10	1.883239171
3196	15	2.824858757
3197	5	0.941619586
3198	5	0.941619586
3199	23	4.331450094
3200	5	0.941619586
3204	6	1.129943503
3429	12	2.259887006
3450	13	2.448210923
3451	8	1.506591337
3910	5	0.941619586
3915	5	0.941619586
3931	14	2.63653484
3936	6	1.129943503
3939	9	1.694915254
3977	6	1.129943503

Standard HEEUP installation

a) Participants' employment status (combined 'Not in the labour force' and 'Retired')

Employment status	Frequency	Percent
Employed - working full-time	22	4.143126177
Employed - working part-time	61	11.48775895
Employed - away from work	3	0.564971751
Retired / Not in the labour force	346	65.16007533
Conducting unpaid work (care/home duties)	28	5.27306968
Studying	5	0.941619586
Unable to work	22	4.143126177
Unemployed - looking for full-time work	11	2.071563089
Unemployed - looking for part-time work	25	4.708097928
Other	3	0.564971751
Missing	5	0.941619586
Total	531	100

b) Indigenous participants

Indigenous status	Frequency	Percent
Non-Indigenous	513	96.61016949
Aboriginal	8	1.506591337
Both Aboriginal and Torres Strait Islander	1	0.188323917
Not stated	4	0.753295669
Missing	5	0.941619586
Total	531	100

3) Household information:

a) Number of people in the home (mean: 2.31)

Number of people in the home	Frequency	Percent
One	155	29.19020716
Two	209	39.35969868
Three	81	15.25423729
Four	40	7.532956685
Five	28	5.27306968
Six	9	1.694915254
Seven	4	0.753295669

Eight	2	0.376647834
Nine	1	0.188323917
Thirteen	0	0
Missing	2	0.376647834
Total	531	100

b) Age groups across all households (Please note: Due to some data entry errors total number in table 3a does not equal total number in table 3b)

Age groups of all household members	Frequency	Percent
Number of occupants aged 0-9	85	6.961506962
Number of occupants aged 10-19	123	10.07371007
Number of occupants aged 20-29	95	7.780507781
Number of occupants aged 30-39	67	5.487305487
Number of occupants aged 40-49	125	10.23751024
Number of occupants aged 50-59	146	11.95741196
Number of occupants aged 60-69	232	19.000819
Number of occupants aged 70-79	218	17.85421785
Number of occupants aged 80-89	113	9.254709255
Number of occupants aged 90-99	17	1.392301392
Total	1221	100

c) Household income

Household income	Frequency	Percent
Nil income	2	0.376647834
\$200-\$299 (\$10400-\$15599)	2	0.376647834
\$300-\$399 (\$15600-\$20799)	22	4.143126177
\$400-\$599 (\$20800-\$31199)	125	23.54048964
\$600-\$799 (\$31200-\$41599)	120	22.59887006
\$800-\$999 (\$41600-\$51999)	88	16.57250471
\$1000-\$1249 (\$52000-\$64999)	51	9.604519774
\$1250-\$1499 (\$65000-\$77999)	52	9.792843691
\$1500-\$1999 (\$78000-\$103999)	30	5.649717514
\$2000-\$2499 (\$104000-\$129999)	19	3.578154426

\$2500-\$2999 (\$130000-\$155999)	3	0.564971751
\$3500-\$3999 (\$182000-\$207999)	1	0.188323917
\$4000-\$4999 (\$208000-\$259999)	1	0.188323917
Missing	15	2.824858757
Total	531	100

d) Household education

Household education	Frequency	Percent
Primary school	20	3.766478343
High school - Year 10	109	20.52730697
High school - Year 12	92	17.32580038
TAFE	102	19.20903955
Tertiary	189	35.59322034
Missing	19	3.578154426
Total	531	100

e) Language spoken at home

Language spoken at home	Frequency	Percent
English	229	43.12617702
Language other than English	35	6.5913371
Missing	267	50.28248588
Total	531	100

4) Dwelling information:**a) Home ownership**

Home ownership	Frequency	Percent
Owned outright (Owned)	386	72.69303202
Owned with a mortgage (Mortgaged)	118	22.22222222
Rented	0	0
Being occupied under a life tenure scheme (Life Tenure)	0	0
Being purchased under a rent buy scheme (Rent Buy)	0	0
Other	1	0.188323917
Missing	26	4.896421846
Total	531	100

b) Ages of homes

Ages of homes	Frequency	Percent
0 - 4 years	2	0.376647834

5 - 9 years	21	3.95480226
10 - 14 years	31	5.838041431
15 - 19 years	34	6.403013183
20 - 29 years	70	13.1826742
30 - 39 years	83	15.63088512
40 - 49 years	92	17.32580038
50 - 59 years	63	11.86440678
60+ years	92	17.32580038
Missing	43	8.097928437
Total	531	100

c) Number of bedrooms (mean: 3.03) (one participant actually had 0 entered)

Number of bedrooms	Frequency	Percent
Zero	1	0.188323917
One	5	0.941619586
Two	104	19.58568738
Three	296	55.74387947
Four	104	19.58568738
Five	13	2.448210923
Six	0	0
Seven	0	0
Eight	1	0.188323917
Missing	7	1.31826742
Total	531	100

d) Number of bathrooms (mean: 1.46)

Number of bathrooms	Frequency	Percent
One	305	57.43879473
One and a half	1	0.188323917
Two	198	37.28813559
Three	16	3.013182674
Four	3	0.564971751
Missing	8	1.506591337
Total	531	100

5) Hot water system information:

a) Old hot water system

Old hot water system	Frequency	Percent
Electric	2	0.376647834
Electric storage	2	0.376647834
Electric Storage (continuous tariff)	16	3.013182674

Electric Storage (off-peak tariff)	109	20.52730697
Electric (instantaneous)	3	0.564971751
Gas	8	1.506591337
Gas storage	3	0.564971751
Natural Gas (storage tank)	306	57.62711864
Natural Gas (instantaneous)	47	8.851224105
LPG (instantaneous)	5	0.941619586
Solar (electric boosted)	10	1.883239171
Solar (gas boosted)	7	1.31826742
Solar (wood boosted)	1	0.188323917
Missing	12	2.259887006
Total	531	100

b) Hot water system upgrades

New hot water system	Frequency	Percent
Solar Gas	228	42.93785311
Gas Storage	56	10.54613936
Heat Pump	118	22.22222222
Instant Gas	102	19.20903955
Solar electric	27	5.084745763
Total	531	100

d) When would participants have replaced their hot water system?

Replacement time	Frequency	Percent
This year	57	10.73446328
1-2 years	55	10.35781544
3-4 years	6	1.129943503
5-6 years	2	0.376647834
If it broke down	388	73.06967985
Don't know	14	2.63653484
Missing	9	1.694915254
Total	531	100

e) What type of hot water system would participants have replaced their existing system with?

Replacement type	Frequency	Percent
Electric storage (off peak)	25	4.708097928
Electric storage (peak)	0	0
Gas storage	109	20.52730697
Heat pump	33	6.214689266
Instantaneous gas hot water	126	23.72881356

Solar - electric	24	4.519774011
Solar - gas	78	14.68926554
Replace it with a similar system to what I currently have	124	23.35216573
Other	4	0.753295669
Missing	8	1.506591337
Total	531	100

f) Cost aside, what would be the preferred hot water system replacement?

Replacement type (cost aside)	Frequency	Percent
Electric storage (off peak)	3	0.564971751
Gas storage	34	6.403013183
Heat pump	74	13.93596987
Instantaneous gas hot water	89	16.76082863
Solar - electric	31	5.838041431
Solar - gas	240	45.19774011
Replace it with a similar system to what I currently have	48	9.039548023
Other	2	0.376647834
Missing	10	1.883239171
Total	531	100

g) Age of hot water system

Age of hot water system	Frequency	Percent
0 - 2 years	3	0.564971751
3 - 5 years	20	3.766478343
6 - 8 years	31	5.838041431
9 - 12 years	106	19.96233522
13 - 16 years	150	28.24858757
17 - 20 years	69	12.99435028
21+ years	118	22.22222222
Missing	34	6.403013183
Total	531	100

6) Energy information:

a) Participants with controlled load (some participants had 'false' for controlled load but an entry for controlled load NMI or tariff, they are included as 'yes')

Controlled load	Frequency	Percent
No	452	85.12241055
Yes	64	12.0527307
Missing	15	2.824858757
Total	531	100

b) Participants' energy source (only based on entries in HWT and Int.Q. not on obtained NMIs/MIRNs)

Energy source	Frequency	Percent
Electricity only	46	8.662900188
Electricity and natural gas	468	88.13559322
Electricity and LPG	12	2.259887006
Electricity, natural gas and LPG	1	0.188323917
Missing	4	0.753295669
Total	531	100

c) Rooftop photovoltaics (only based on entries in Questionnaire and Int.Q. not on obtained energy data)

PV	Frequency	Percent
No	358	67.41996234
Yes	169	31.826742
Missing	4	0.753295669
Total	531	100

Community housing**b) Postcodes with 5 or more installations**

Postcodes	Frequency	Percent of all community housing installs
3031	19	11.11111111
3064	9	5.263157895
3073	28	16.37426901
3085	31	18.12865497
3101	10	5.847953216
3442	6	3.50877193
3550	5	2.923976608

2) Participant information:**a) Participants' employment status**

Employment status	Frequency	Percent
Employed - working full-time	2	1.169590643
Employed - working part-time	10	5.847953216
Employed - away from work	0	0
Retired	88	51.4619883
Conducting unpaid work (care/home duties)	9	5.263157895
Studying	1	0.584795322

Unable to work	47	27.48538012
Unemployed - looking for full-time work	6	3.50877193
Unemployed - looking for part-time work	3	1.754385965
Other	0	0
Missing	5	2.923976608
Total	171	100

b) Indigenous participants

Indigenous status	Frequency	Percent
Non-Indigenous	161	94.15204678
Aboriginal	1	0.584795322
Both Aboriginal and Torres Strait Islander	0	0
Not stated	2	1.169590643
Missing	7	4.093567251
Total	171	100

3) Household information:**a) Number of people in the home** (mean: 1.62)

Number of people in the home	Frequency	Percent
One	109	63.74269006
Two	36	21.05263158
Three	11	6.432748538
Four	4	2.339181287
Five	3	1.754385965
Six	3	1.754385965
Seven	1	0.584795322
Eight	0	0
Nine	0	0
Thirteen	0	0
Missing	4	2.339181287
Total	171	100

b) Age groups across all households (Please note: Due to some data entry errors total number in table 3a does not equal total number in table 3b)

Age groups of all household members	Frequency	Percent
Number of occupants aged 0-9	22	8.239700375
Number of occupants aged 10-19	29	10.86142322
Number of occupants aged 20-29	12	4.494382022
Number of occupants aged 30-39	24	8.988764045

Number of occupants aged 40-49	31	11.61048689
Number of occupants aged 50-59	39	14.60674157
Number of occupants aged 60-69	37	13.8576779
Number of occupants aged 70-79	25	9.36329588
Number of occupants aged 80-89	39	14.60674157
Number of occupants aged 90-99	9	3.370786517
Total	267	100

c) Household income

Household income	Frequency	Percent
Nil income	0	0
\$200-\$299 (\$10400-\$15599)	2	1.169590643
\$300-\$399 (\$15600-\$20799)	18	10.52631579
\$400-\$599 (\$20800-\$31199)	37	21.6374269
\$600-\$799 (\$31200-\$41599)	23	13.4502924
\$800-\$999 (\$41600-\$51999)	66	38.59649123
\$1000-\$1249 (\$52000-\$64999)	1	0.584795322
\$1250-\$1499 (\$65000-\$77999)	9	5.263157895
\$1500-\$1999 (\$78000-\$103999)	5	2.923976608
\$2000-\$2499 (\$104000-\$129999)	1	0.584795322
\$2500-\$2999 (\$130000-\$155999)	0	0
\$3500-\$3999 (\$182000-\$207999)	0	0
\$4000-\$4999 (\$208000-\$259999)	0	0
Missing	9	5.263157895
Total	171	100

d) Household education

Household education	Frequency	Percent
Primary school	10	5.847953216
High school - Year 10	70	40.93567251
High school - Year 12	33	19.29824561

TAFE	16	9.356725146
Tertiary	24	14.03508772
Missing	18	10.52631579
Total	171	100

e) Language spoken at home

Language spoken at home	Frequency	Percent
English	23	13.4502924
Language other than English	1	0.584795322
Missing	147	85.96491228
Total	171	100

4) Dwelling information:

a) Home ownership

Home ownership	Frequency	Percent
Owned outright (Owned)	3	1.754385965
Owned with a mortgage (Mortgaged)	0	0
Rented	166	97.07602339
Being occupied under a life tenure scheme (Life Tenure)	1	0.584795322
Being purchased under a rent buy scheme (Rent Buy)	1	0.584795322
Other	0	0
Missing	0	0
Total	171	100

b) Ages of homes

Ages of homes	Frequency	Percent
0 - 4 years	1	0.584795322
5 - 9 years	0	0
10 - 14 years	57	33.33333333
15 - 19 years	44	25.73099415
20 - 29 years	14	8.187134503
30 - 39 years	25	14.61988304
40 - 49 years	11	6.432748538
50 - 59 years	4	2.339181287
60+ years	4	2.339181287
Missing	11	6.432748538
Total	171	100

c) Number of bedrooms (mean: 1.98)

Number of bedrooms	Frequency	Percent
Zero	0	0

One	44	25.73099415
Two	91	53.21637427
Three	24	14.03508772
Four	3	1.754385965
Five	2	1.169590643
Six	1	0.584795322
Seven	0	0
Eight	0	0
Missing	6	3.50877193
Total	171	100

d) Number of bathrooms (mean: 1.08)

Number of bathrooms	Frequency	Percent
One	154	90.05847953
One and a half	0	0
Two	10	5.847953216
Three	2	1.169590643
Four	0	0
Missing	5	2.923976608
Total	171	100

5) Hot water system information:**a) Old hot water system**

Old hot water system	Frequency	Percent
Electric	0	0
Electric storage	0	0
Electric Storage (continuous tariff)	4	2.339181287
Electric Storage (off-peak tariff)	44	25.73099415
Electric (instantaneous)	1	0.584795322
Gas	0	0
Gas storage	0	0
Natural Gas (storage tank)	80	46.78362573
Natural Gas (instantaneous)	32	18.71345029
LPG (instantaneous)	1	0.584795322
Solar (electric boosted)	1	0.584795322
Solar (gas boosted)	1	0.584795322
Solar (wood boosted)	0	0
Missing	7	4.093567251
Total	171	100

b) Hot water system upgrades

New hot water system	Frequency	Percent
Solar Gas	7	4.093567251
Gas Storage	86	50.29239766
Heat Pump	34	19.88304094
Instant Gas	39	22.80701754
Solar electric	5	2.923976608
Total	171	100

d) When would participants have replaced their hot water system?

Not applicable for community housing

e) What type of hot water system would participants have replaced their existing system with?

Not applicable for community housing

f) Cost aside, what would be the preferred hot water system replacement?

Not applicable for community housing

g) Age of hot water system

Age of hot water system	Frequency	Percent
0 - 2 years	3	1.754385965
3 - 5 years	2	1.169590643
6 - 8 years	1	0.584795322
9 - 12 years	57	33.33333333
13 - 16 years	71	41.52046784
17 - 20 years	4	2.339181287
21+ years	5	2.923976608
Missing	28	16.37426901
Total	171	100

6) Energy information:

a) Participants with controlled load (some participants had 'false' for controlled load but an entry for controlled load NMI or tariff, they are included as 'yes')

Controlled load	Frequency	Percent
No	161	94.15204678
Yes	6	3.50877193
Missing	4	2.339181287
Total	171	100

b) Participants' energy source (only based on entries in HWT and Int.Q. not on obtained

NMIs/MIRNs)

Energy source	Frequency	Percent
Electricity only	42	24.56140351
Electricity and natural gas	125	73.0994152
Electricity and LPG	0	0
Electricity, natural gas and LPG	0	0
Missing	4	2.339181287
Total	171	100

c) Rooftop photovoltaics (only based on entries in Questionnaire and Int.Q. not on obtained energy data)

PV	Frequency	Percent
No	165	96.49122807
Yes	2	1.169590643
Missing	4	2.339181287
Total	171	100

Independent installation

3) Household information:**a) Number of people in the home (mean: 2.53)**

Number of people in the home	Frequency	Percent
One	12	26.66666667
Two	16	35.55555556
Three	8	17.77777778
Four	4	8.88888889
Five	3	6.66666667
Six	1	2.22222222
Seven	0	0
Eight	0	0
Nine	1	2.22222222
Thirteen	0	0
Missing	0	0
Total	45	100

c) Household income

Household income	Frequency	Percent
Nil income	0	0
\$200-\$299 (\$10400-\$15599)	0	0
\$300-\$399 (\$15600-\$20799)	2	4.44444444
\$400-\$599 (\$20800-\$31199)	7	15.55555556
\$600-\$799 (\$31200-\$41599)	14	31.11111111
\$800-\$999 (\$41600-\$51999)	10	22.22222222
\$1000-\$1249 (\$52000-\$64999)	3	6.66666667
\$1250-\$1499 (\$65000-\$77999)	5	11.11111111
\$1500-\$1999 (\$78000-\$103999)	3	6.66666667
\$2000-\$2499 (\$104000-\$129999)	0	0
\$2500-\$2999 (\$130000-\$155999)	0	0

\$3500-\$3999 (\$182000-\$207999)	0	0
\$4000-\$4999 (\$208000-\$259999)	0	0
Missing	1	2.222222222
Total	45	100

4) Dwelling information:

a) Home ownership

Home ownership	Frequency	Percent
Owned outright (Owned)	29	64.44444444
Owned with a mortgage (Mortgaged)	7	15.55555556
Rented	0	0
Being occupied under a life tenure scheme (Life Tenure)	0	0
Being purchased under a rent buy scheme (Rent Buy)	0	0
Other	0	0
Missing	9	20
Total	45	100

b) Ages of homes

Ages of homes	Frequency	Percent
0 - 4 years	1	2.222222222
5 - 9 years	2	4.444444444
10 - 14 years	2	4.444444444
15 - 19 years	4	8.888888889
20 - 29 years	5	11.11111111
30 - 39 years	7	15.55555556
40 - 49 years	9	20
50 - 59 years	9	20
60+ years	4	8.888888889
Missing	2	4.444444444
Total	45	100

5) Hot water system information:

a) Old hot water system

Old hot water system	Frequency	Percent
Electric	0	0

Electric storage	0	0
Electric Storage (continuous tariff)	2	4.444444444
Electric Storage (off-peak tariff)	2	4.444444444
Electric (instantaneous)	0	0
Gas	0	0
Gas storage	0	0
Natural Gas (storage tank)	36	80
Natural Gas (instantaneous)	2	4.444444444
LPG (instantaneous)	0	0
Solar (electric boosted)	0	0
Solar (gas boosted)	1	2.222222222
Solar (wood boosted)	0	0
Missing	2	4.444444444
Total	45	100

b) Hot water system upgrades

New hot water system	Frequency	Percent
Solar Gas	0	0
Gas Storage	41	91.11111111
Heat Pump	0	0
Instant Gas	4	8.888888889
Solar electric	0	0
Total	45	100

g) Age of hot water system

Age of hot water system	Frequency	Percent
0 - 2 years	6	13.33333333
3 - 5 years	2	4.444444444
6 - 8 years	1	2.222222222
9 - 12 years	1	2.222222222
13 - 16 years	13	28.88888889
17 - 20 years	5	11.11111111
21+ years	9	20
Missing	8	17.77777778
Total	45	100

b) Participants' energy source (only based on entries in HWT and Int.Q. not on obtained NMIs/MIRNs)

Energy source	Frequency	Percent
Electricity only	1	2.222222222
Electricity and natural gas	43	95.55555556
Electricity and LPG	1	2.222222222
Electricity, natural gas and LPG	0	0

Missing	0	0
Total	45	100

c) Rooftop photovoltaics (only based on entries in Questionnaire and Int.Q. not on obtained energy data)

PV	Frequency	Percent
No	37	82.22222222
Yes	8	17.77777778
Missing	0	0
Total	45	100

Emergency replacement

3) Household information:**a) Number of people in the home (mean: 2.63)**

Number of people in the home	Frequency	Percent
One	4	25
Two	9	56.25
Three	1	6.25
Four	1	6.25
Five	0	0
Six	0	0
Seven	0	0
Eight	0	0
Nine	0	0
Thirteen	1	6.25
Missing	0	0
Total	16	100

c) Household income

Household income	Frequency	Percent
Nil income	0	0
\$200-\$299 (\$10400-\$15599)	0	0
\$300-\$399 (\$15600-\$20799)	1	6.25
\$400-\$599 (\$20800-\$31199)	6	37.5
\$600-\$799 (\$31200-\$41599)	3	18.75
\$800-\$999 (\$41600-\$51999)	3	18.75
\$1000-\$1249 (\$52000-\$64999)	1	6.25
\$1250-\$1499 (\$65000-\$77999)	0	0
\$1500-\$1999 (\$78000-\$103999)	1	6.25
\$2000-\$2499 (\$104000-\$129999)	0	0
\$2500-\$2999 (\$130000-\$155999)	0	0

\$3500-\$3999 (\$182000-\$207999)	0	0
\$4000-\$4999 (\$208000-\$259999)	0	0
Missing	1	6.25
Total	16	100

4) Dwelling information:

a) Home ownership

Home ownership	Frequency	Percent
Owned outright (Owned)	11	68.75
Owned with a mortgage (Mortgaged)	3	18.75
Rented	0	0
Being occupied under a life tenure scheme (Life Tenure)	0	0
Being purchased under a rent buy scheme (Rent Buy)	0	0
Other	0	0
Missing	2	12.5
Total	16	100

b) Ages of homes

Ages of homes	Frequency	Percent
0 - 4 years	0	0
5 - 9 years	0	0
10 - 14 years	1	6.25
15 - 19 years	1	6.25
20 - 29 years	1	6.25
30 - 39 years	3	18.75
40 - 49 years	3	18.75
50 - 59 years	2	12.5
60+ years	5	31.25
Missing	0	0
Total	16	100

5) Hot water system information:

a) Old hot water system

Old hot water system	Frequency	Percent
Electric	0	0

Electric storage	0	0
Electric Storage (continuous tariff)	0	0
Electric Storage (off-peak tariff)	4	25
Electric (instantaneous)	0	0
Gas	1	6.25
Gas storage	0	0
Natural Gas (storage tank)	7	43.75
Natural Gas (instantaneous)	4	25
LPG (instantaneous)	0	0
Solar (electric boosted)	0	0
Solar (gas boosted)	0	0
Solar (wood boosted)	0	0
Missing	0	0
Total	16	100

b) Hot water system upgrades

New hot water system	Frequency	Percent
Solar Gas	3	18.75
Gas Storage	9	56.25
Heat Pump	0	0
Instant Gas	4	25
Solar electric	0	0
Total	16	100

g) Age of hot water system

Age of hot water system	Frequency	Percent
0 - 2 years	1	6.25
3 - 5 years	0	0
6 - 8 years	1	6.25
9 - 12 years	1	6.25
13 - 16 years	3	18.75
17 - 20 years	3	18.75
21+ years	6	37.5
Missing	1	6.25
Total	16	100

b) Participants' energy source (only based on entries in HWT and Int.Q. not on obtained NMIs/MIRNs)

Energy source	Frequency	Percent
Electricity only	0	0
Electricity and natural gas	16	100
Electricity and LPG	0	0

Electricity, natural gas and LPG	0	0
Missing	0	0
Total	16	100

c) Rooftop photovoltaics (only based on entries in Questionnaire and Int.Q. not on obtained energy data)

PV	Frequency	Percent
No	13	81.25
Yes	3	18.75
Missing	0	0
Total	16	100

Upgrade pathways: all HEEUP participants

Old hot water system	Hot water system upgrade	Frequency	Percent
Total		764	100.0
Natural Gas (storage tank)	Solar Gas	163	21.3
Natural Gas (storage tank)	Gas Storage	147	19.2
Electric Storage (off-peak tariff)	Heat Pump	76	9.9
Natural Gas (storage tank)	Instant Gas	65	8.5
Natural Gas (storage tank)	Heat Pump	51	6.7
Natural Gas (instantaneous)	Instant Gas	41	5.4
Electric Storage (off-peak tariff)	Instant Gas	29	3.8
Natural Gas (instantaneous)	Solar Gas	25	3.3
Electric Storage (off-peak tariff)	Solar Gas	19	2.5
Electric Storage (off-peak tariff)	Solar electric	18	2.4
Electric Storage (off-peak tariff)	Gas Storage	17	2.2
Natural Gas (instantaneous)	Gas Storage	11	1.4
Missing information on old system	Gas Storage	8	1.0
Missing information on old system	Solar Gas	8	1.0
Natural Gas (instantaneous)	Heat Pump	8	1.0
Solar (gas boosted)	Solar Gas	7	0.9
Electric Storage (continuous tariff)	Heat Pump	6	0.8
Electric Storage (continuous tariff)	Instant Gas	6	0.8
Electric Storage (continuous tariff)	Solar electric	5	0.7
Gas	Solar Gas	4	0.5
LPG (instantaneous)	Solar Gas	4	0.5
Natural Gas (storage tank)	Solar electric	4	0.5
Solar (electric boosted)	Solar electric	4	0.5
Electric Storage (continuous tariff)	Gas Storage	3	0.4

Solar (electric boosted)	Heat Pump	3	0.4
Electric storage	Heat Pump	2	0.3
Electric Storage (continuous tariff)	Solar Gas	2	0.3
Gas	Heat Pump	2	0.3
Gas	Instant Gas	2	0.3
Missing information on old system	Heat Pump	2	0.3
Missing information on old system	Instant Gas	2	0.3
Solar (electric boosted)	Solar Gas	2	0.3
Solar (gas boosted)	Gas Storage	2	0.3
Electric	Instant Gas	1	0.1
Electric	Solar Gas	1	0.1
Electric (instantaneous)	Gas Storage	1	0.1
Electric (instantaneous)	Heat Pump	1	0.1
Electric (instantaneous)	Instant Gas	1	0.1
Electric (instantaneous)	Solar Gas	1	0.1
Gas	Gas Storage	1	0.1
Gas storage	Gas Storage	1	0.1
Gas storage	Instant Gas	1	0.1
Gas storage	Solar Gas	1	0.1
LPG (instantaneous)	Gas Storage	1	0.1
LPG (instantaneous)	Heat Pump	1	0.1
Missing information on old system	Solar electric	1	0.1
Solar (electric boosted)	Gas Storage	1	0.1
Solar (electric boosted)	Instant Gas	1	0.1
Solar (wood boosted)	Solar Gas	1	0.1

Upgrade pathways: Standard HEEUP installation

Old hot water system	Hot water system upgrade	Frequency	Percent
Total		531	100.0
Natural Gas (storage tank)	Solar Gas	157	29.6
Electric Storage (off-peak tariff)	Heat Pump	50	9.4
Natural Gas (storage tank)	Gas Storage	50	9.4
Natural Gas (storage tank)	Instant Gas	49	9.2
Natural Gas (storage tank)	Heat Pump	46	8.7
Electric Storage (off-peak tariff)	Instant Gas	25	4.7
Natural Gas (instantaneous)	Solar Gas	22	4.1
Electric Storage (off-peak tariff)	Solar Gas	18	3.4
Natural Gas (instantaneous)	Instant Gas	16	3.0
Electric Storage (off-peak tariff)	Solar electric	14	2.6
Missing information on old system	Solar Gas	8	1.5
Natural Gas (instantaneous)	Heat Pump	8	1.5

Solar (gas boosted)	Solar Gas	7	1.3
Electric Storage (continuous tariff)	Instant Gas	5	0.9
Electric Storage (continuous tariff)	Heat Pump	4	0.8
Electric Storage (continuous tariff)	Solar electric	4	0.8
Gas	Solar Gas	4	0.8
LPG (instantaneous)	Solar Gas	4	0.8
Natural Gas (storage tank)	Solar electric	4	0.8
Solar (electric boosted)	Solar electric	4	0.8
Solar (electric boosted)	Heat Pump	3	0.6
Electric storage	Heat Pump	2	0.4
Electric Storage (continuous tariff)	Solar Gas	2	0.4
Electric Storage (off-peak tariff)	Gas Storage	2	0.4
Gas	Heat Pump	2	0.4
Gas	Instant Gas	2	0.4
Solar (electric boosted)	Solar Gas	2	0.4
Electric	Instant Gas	1	0.2
Electric	Solar Gas	1	0.2
Electric (instantaneous)	Heat Pump	1	0.2
Electric (instantaneous)	Instant Gas	1	0.2
Electric (instantaneous)	Solar Gas	1	0.2
Electric Storage (continuous tariff)	Gas Storage	1	0.2
Gas storage	Gas Storage	1	0.2
Gas storage	Instant Gas	1	0.2
Gas storage	Solar Gas	1	0.2
LPG (instantaneous)	Heat Pump	1	0.2
Missing information on old system	Gas Storage	1	0.2
Missing information on old system	Heat Pump	1	0.2
Missing information on old hot water system	Instant Gas	1	0.2
Missing information on old hot water system	Solar electric	1	0.2
Natural Gas (instantaneous)	Gas Storage	1	0.2
Solar (electric boosted)	Instant Gas	1	0.2
Solar (wood boosted)	Solar Gas	1	0.2

Upgrade pathways: community housing

Old hot water system	Hot water system upgrade	Frequency	Percent
Total		171	100.0
Natural Gas (storage tank)	Gas Storage	54	31.6
Electric Storage (off-peak tariff)	Heat Pump	26	15.2
Natural Gas (instantaneous)	Instant Gas	21	12.3
Natural Gas (storage tank)	Instant Gas	16	9.4

Electric Storage (off-peak tariff)	Gas Storage	12	7.0
Natural Gas (instantaneous)	Gas Storage	9	5.3
Missing information on old hot water system	Gas Storage	6	3.5
Natural Gas (storage tank)	Heat Pump	5	2.9
Natural Gas (storage tank)	Solar Gas	5	2.9
Electric Storage (off-peak tariff)	Solar electric	4	2.3
Electric Storage (continuous tariff)	Heat Pump	2	1.2
Electric Storage (off-peak tariff)	Instant Gas	2	1.2
Natural Gas (instantaneous)	Solar Gas	2	1.2
Electric (instantaneous)	Gas Storage	1	0.6
Electric Storage (continuous tariff)	Gas Storage	1	0.6
Electric Storage (continuous tariff)	Solar electric	1	0.6
LPG (instantaneous)	Gas Storage	1	0.6
Missing information on old hot water system	Heat Pump	1	0.6
Solar (electric boosted)	Gas Storage	1	0.6
Solar (gas boosted)	Gas Storage	1	0.6

Upgrade pathways: independent installations

Old hot water system	Hot water system upgrade	Frequency	Percent
Electric Storage (continuous tariff)	Gas Storage	1	2.2
Electric Storage (continuous tariff)	Instant Gas	1	2.2
Electric Storage (off-peak tariff)	Gas Storage	2	4.4
Missing information on old hot water system	Gas Storage	1	2.2
Missing information on old hot water system	Instant Gas	1	2.2
Natural Gas (instantaneous)	Instant Gas	2	4.4
Natural Gas (storage tank)	Gas Storage	36	80.0
Solar (gas boosted)	Gas Storage	1	2.2
Total		45	100.0

Upgrade pathways: emergency replacement

Old hot water system	Hot water system upgrade	Frequency	Percent
Electric Storage (off-peak tariff)	Gas Storage	1	6.3
Electric Storage (off-peak tariff)	Instant Gas	2	12.5
Electric Storage (off-peak tariff)	Solar Gas	1	6.3
Gas	Gas Storage	1	6.3
Natural Gas (instantaneous)	Gas Storage	1	6.3
Natural Gas (instantaneous)	Instant Gas	2	12.5

Natural Gas (instantaneous)	Solar Gas	1	6.3
Natural Gas (storage tank)	Gas Storage	6	37.5
Natural Gas (storage tank)	Solar Gas	1	6.3
Total		16	100.0