

Table 3 – Energy demand profiles

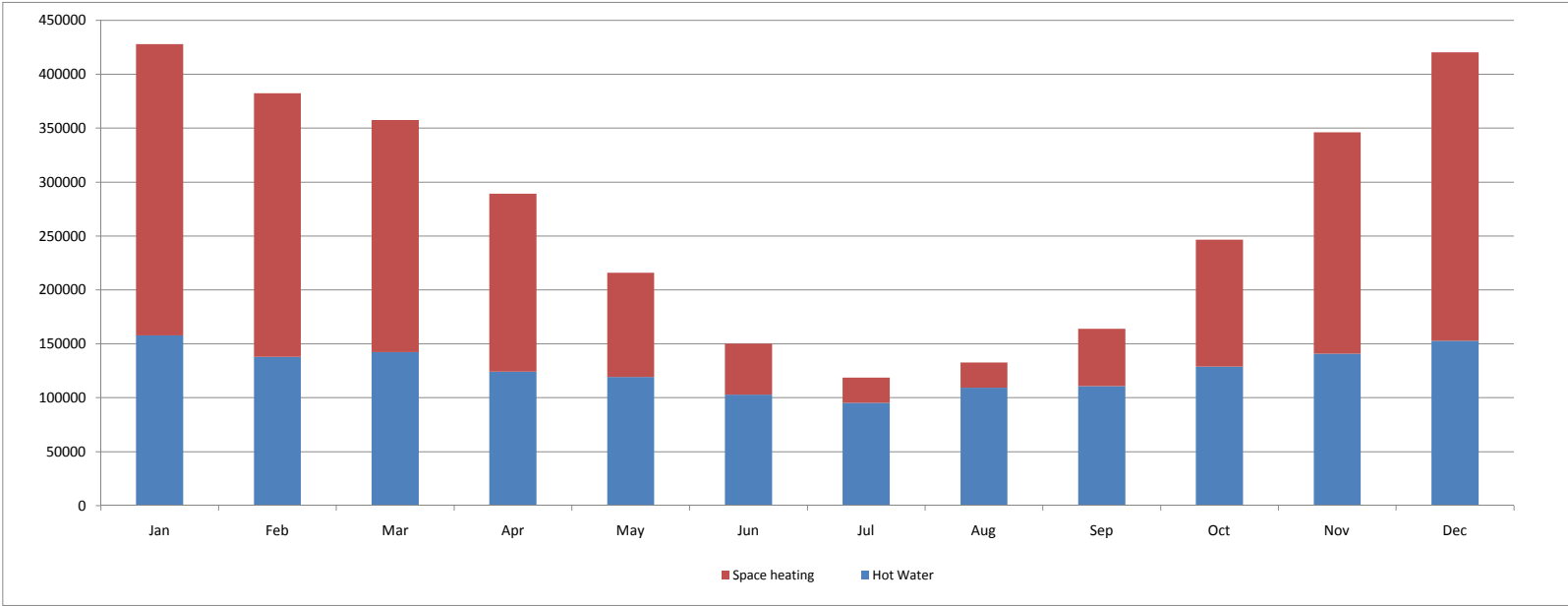
ENERGY BASELINE
Hot water and space heating calcs

	Average Floor Area from SAP	Hot water demand	Space Heating demand	Number of Units	Total Hot water demand	Total Sapce heating demand
Domesctic					1220066	1297933
Non-Domestic					173868	238510
School					128520	192780
Total					1522453	1729223

Weighted space heating											
0.156	0.141	0.124	0.095	0.056	0.027	0.014	0.014	0.031	0.068	0.119	0.155
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month
202763	183363	161459	123911	72594	35671	17523	17523	40052	88239	153950	200885
37260	33695	29670	22770	13340	6555	3220	3220	7360	16215	28290	36915
30116	27235	23981	18404	10782	5298	2603	2603	5949	13106	22866	29837
270139	244292	215111	165085	96716	47524	23345	23345	53361	117560	205105	267638

Weighted hot water											
0.104	0.091	0.094	0.082	0.078	0.068	0.063	0.072	0.073	0.085	0.093	0.100
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month
126476	110620	114149	99519	95492	82397	76353	87619	88664	103333	112954	122488
18024	15764	16267	14182	13608	11742	10881	12486	12635	14726	16097	17455
13323	11653	12024	10483	10059	8680	8043	9230	9340	10885	11898	12903
157823	138037	142440	124185	119159	102819	95276	109336	110639	128944	140949	152847

TOTAL	427962	382329	357551	289270	215876	150344	118621	132681	164000	246504	346055	420484
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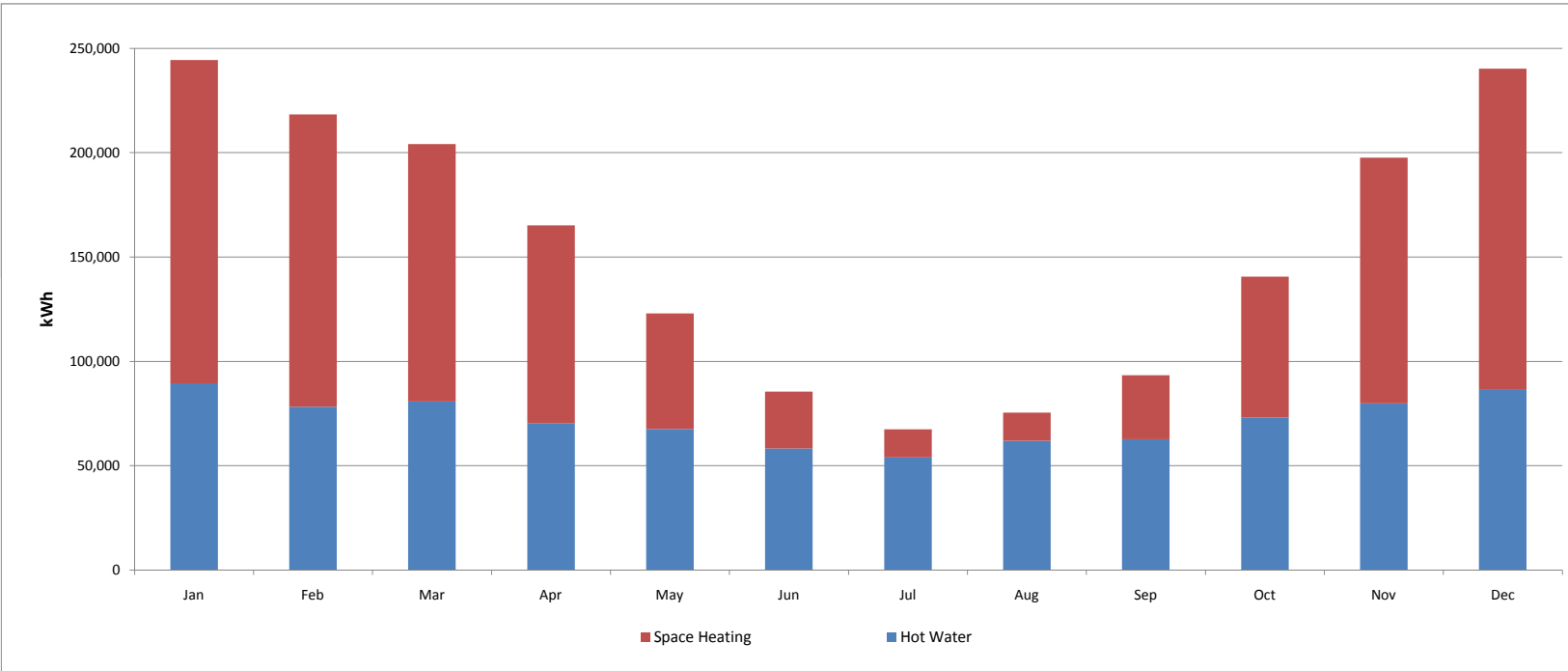


	Average Floor Area from SAP	Hot water demand	Space Heating demand	Number of Units	Total Hot water demand	Total Sapce heating demand
Domesctic					636048	668533
Non-Domestic					130401	178883
School					96390	144585
Total					862839	992000

Weighted space heating											
0.156	0.141	0.124	0.095	0.056	0.027	0.014	0.014	0.031	0.068	0.119	0.155
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month
104438	94446	83164	63823	37391	18373	9026	9026	20630	45450	79296	103471
27945	25271	22253	17078	10005	4916	2415	2415	5520	12161	21218	27686
22587	20426	17986	13803	8087	3974	1952	1952	4462	9830	17149	22378
154970	140143	123402	94704	55483	27263	13392	13392	30611	67441	117663	153535

Weighted hot water											
0.104	0.091	0.094	0.082	0.078	0.068	0.063	0.072	0.073	0.085	0.093	0.100
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month	kWh/month
65935	57669	59508	51882	49782	42956	39804	45678	46223	53870	58886	63856
13518	11823	12200	10637	10206	8807	8161	9365	9476	11044	12073	13092
9992	8739	9018	7862	7544	6510	6032	6922	7005	8164	8924	9677
89445	78231	80727	70381	67533	58272	53997	61965	62704	73078	79882	86625

TOTAL	244415	218374	204129	165085	123016	85535	67390	75358	93315	140519	197545	240160
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DOMESTIC ENERGY DEMAND PROFILE

Month	Heat Demand (kWh)					Fossil Fuel (Gas) Demand (kWh)					Electricity Demand (kWh)	
	BASELINE			APEE		BASELINE			APEE		BASELINE	APEE
	Hot Water	Space heating	Cooking	Hot Water	Space heating	Hot Water	Space heating	Cooking	Hot Water	Space heating	Electricity	Electricity
Jan	126476	202763	45486	65935	104438	140529	225292	50540	73261	116042	109650	95654
Feb	110620	183363	45486	57669	94446	122911	203736	50540	64076	104940	109650	95654
Mar	114149	161459	45486	59508	83164	126832	179399	50540	66121	92404	109650	95654
Apr	99519	123911	45486	51882	63823	110577	137678	50540	57646	70915	109650	95654
May	95492	72594	45486	49782	37391	106102	80660	50540	55314	41546	109650	95654
Jun	82397	35671	45486	42956	18373	91553	39635	50540	47729	20415	109650	95654
Jul	76353	17523	45486	39804	9026	84836	19470	50540	44227	10028	109650	95654
Aug	87619	17523	45486	45678	9026	97355	19470	50540	50753	10028	109650	95654
Sep	88664	40052	45486	46223	20630	98515	44502	50540	51358	22922	109650	95654
Oct	103333	88239	45486	53870	45450	114815	98044	50540	59855	50500	109650	95654
Nov	112954	153950	45486	58886	79296	125505	171055	50540	65428	88106	109650	95654
Dec	122488	200885	45486	63856	103471	136098	223206	50540	70951	114968	109650	95654
Total	1,220,066	1,297,933	545,827	636,048	668,533	1,355,629	1,442,148	606,475	706,720	742,814	1,315,804	1,147,846

NON-DOMESCTIC ENERGY PROFILE

Month	Heat Demand (kWh)					Fossil Fuel (Gas) Demand (kWh)					Electricity Demand (kWh)	
	BASELINE			APEE		BASELINE			APEE		BASELINE	APEE
	Hot Water	Space heating	Cooking	Hot Water	Space heating	Hot Water	Space heating	Cooking	Hot Water	Space heating	Electricity	Electricity
Jan	18024	37260	3325	13518	27945	20026	41400	3694	15020	31050	44785	33589
Feb	15764	33695	3325	11823	25271	17516	37439	3694	13137	28079	44785	33589
Mar	16267	29670	3325	12200	22253	18074	32967	3694	13556	24725	44785	33589
Apr	14182	22770	3325	10637	17078	15758	25300	3694	11818	18975	44785	33589
May	13608	13340	3325	10206	10005	15120	14822	3694	11340	11117	44785	33589
Jun	11742	6555	3325	8807	4916	13047	7283	3694	9785	5463	44785	33589
Jul	10881	3220	3325	8161	2415	12090	3578	3694	9067	2683	44785	33589
Aug	12486	3220	3325	9365	2415	13874	3578	3694	10405	2683	44785	33589
Sep	12635	7360	3325	9476	5520	14039	8178	3694	10529	6133	44785	33589
Oct	14726	16215	3325	11044	12161	16362	18017	3694	12271	13513	44785	33589
Nov	16097	28290	3325	12073	21218	17885	31433	3694	13414	23575	44785	33589
Dec	17455	36915	3325	13092	27686	19395	41017	3694	14546	30763	44785	33589
Total	173,868	238,510	39,900	130,401	178,883	193,186	265,011	44,333	144,890	198,758	537,425	403,069

SCHOOL ENERGY PROFILE

Month	Heat Demand (kWh)					Fossil Fuel (Gas) Demand (kWh)					Electricity Demand (kWh)	
	BASELINE			APEE		BASELINE			APEE		BASELINE	APEE
	Hot Water	Space heating	Cooking	Hot Water	Space heating	Hot Water	Space heating	Cooking	Hot Water	Space heating	Electricity	Electricity
Jan	13323	30116	1680	9992	22587	14803	33462	1867	11102	25097	6720	6300
Feb	11653	27235	1680	8739	20426	12947	30261	1867	9710	22695	6720	6300
Mar	12024	23981	1680	9018	17986	13360	26646	1867	10020	19984	6720	6300
Apr	10483	18404	1680	7862	13803	11648	20449	1867	8736	15337	6720	6300
May	10059	10782	1680	7544	8087	11177	11980	1867	8383	8985	6720	6300
Jun	8680	5298	1680	6510	3974	9644	5887	1867	7233	4415	6720	6300
Jul	8043	2603	1680	6032	1952	8937	2892	1867	6702	2169	6720	6300
Aug	9230	2603	1680	6922	1952	10255	2892	1867	7691	2169	6720	6300
Sep	9340	5949	1680	7005	4462	10377	6610	1867	7783	4957	6720	6300
Oct	10885	13106	1680	8164	9830	12094	14562	1867	9071	10922	6720	6300
Nov	11898	22866	1680	8924	17149	13220	25407	1867	9915	19055	6720	6300
Dec	12903	29837	1680	9677	22378	14336	33152	1867	10752	24864	6720	6300
Total	128,520	192,780	20,160	96,390	144,585	142,800	214,200	22,400	107,100	160,650	80,640	75,600