

Ulster County 2016 Climate Smart Communities Benchmarking Analysis

All data compiled by the Ulster County Department of the Environment in conjunction with UC Department of Public Works (8/2017)

See accompanying reference document Ulster County Benchmarking Analysis and Data Compilation Factors and Conversions for details and further information

Building	Sq. Ft.	Electricity (kWh)	kWh/Sq. Ft.	Natural Gas (CCF)	CCF/Sq. Ft.	Oil (gal.)	Oil gal./Sq. Ft.	Propane (gal.)	Propane gal./Sq. Ft.	Annual Site Energy, Secondary (kBtu)	Annual Site Energy, Primary (kBtu)	Annual Source Energy, Secondary (kBtu)	Annual Source Energy, Primary (kBtu)	Site EUI (kBtu/Sq. Ft.)	Source EUI (kBtu/Sq. Ft.)
UC Law Enforcement Center	277,000	4,939,461	17.83			118,014	0.43			16,853,442	16,285,932	52,919,809	16,448,791	119.64	250.43
Ulster Ave. Office Complex (DSS)	68,667	811,674	11.82	26,078	0.38					2,769,432	2,675,609	8,696,016	2,809,390	79.30	167.55
UC Office Building	62,396	924,992	14.82	25,491	0.41					3,156,071	2,615,375	9,910,063	2,746,144	92.50	202.84
Old UC Jail	53,391	178,316	3.34							608,415		1,910,423		11.40	35.78
Business Resource Center	49,310	488,616	9.91	13,016	0.26					1,667,158	1,335,411	5,234,875	1,402,181	60.89	134.60
Courthouse	43,360	665,333	15.34	12,060	0.28					2,270,115	1,237,400	7,128,160	1,299,270	80.89	194.36
Mental Health Building	39,600	567,489	14.33	7,683	0.19					1,936,272	788,316	6,079,893	827,731	68.80	174.43
Heavy Vehicle Maintenance Complex	35,000	136,725	3.91	23,631	0.68	2,704	0.08	2095	0.06	466,507	2,991,846.000†	1,464,833	3,118,803.540†	97.16	125.79
SUNY Ulster Kingston Center	29,900	328,080	10.97	19,140	0.64					1,119,409	1,963,764	3,514,944	2,061,952	103.12	186.52
Flatbush Annex	24,836	221,135	8.90	7,227	0.29					754,512	741,540	2,369,168	778,617	60.24	126.74
UCAT	23,413	354,154	15.13	11,494	0.49					1,208,373	1,179,287	3,794,291	1,238,251	101.98	214.95
UC Record Storage	22,550	537,506	23.84	12,684	0.56					1,833,970	1,301,361	5,758,666	1,366,429	139.04	315.97
Family Court	22,282	223,190	10.02			7,047	0.32			761,526	972,527	2,391,191	982,253	77.82	151.40
Trudy Resnick Farber Building	20,732	210,988	10.18			11,390	0.54			719,892	1,571,765	2,260,460	1,587,482	110.54	185.60
Probation Department	17,594	176,682	10.04	7,795	0.44					602,839	799,754	1,892,915	839,742	79.72	155.32
West Hurley Substation	15,146	44,202	2.92			2,853	0.19			150,818	393,714	473,568	397,651	35.95	57.52
New Paltz Sub-station & Salt Storage	13,697	33,323	2.43							113,699		357,015		8.30	26.07
Boiceville Substation	13,690	25,964	1.90					2480	0.18	88,588	228,151	278,165	230,432	23.14	37.15
Information Services	13,174	677,944	51.46	4,532	0.34					2,313,144	464,951	7,263,271	488,198	210.88	588.39
Public Works Building	8,925	140,299	15.72	2,612	0.29	262	0.03			478,699	292,176.600*	1,503,115	305,341.950*	68.68	199.30
Community Correctional Facility	7,200	89,911	12.49					2849	0.40	306,775	262,099	963,274	264,720	79.01	170.55
Ulster County Pool	6,922	62,208	8.99			1,463	0.21			212,254	201,922	666,477	203,941	59.83	125.75
Veterans' Home	6,656	16,106	2.42	2,768	0.42					54,954	284,039	172,554	298,241	50.93	70.73
Persen House	6,405	1,740	0.27							5,936		18,638		0.93	2.91
Saugerties Substation	5,223	21,961	4.20					2113	0.40	74,929	194,433	235,278	196,377	51.57	82.65
Old Jail Storage Garage	5,000	81,543	16.31							278,225		873,628		55.65	174.73
Central Auto	5,000	31,831	6.37			2,174	0.44			108,608	300,040	341,028	303,040	81.73	128.81
Shawangunk Substation	4433	14,564	3.29							49,693		156,035		11.21	35.20
17 Pearl St.	4,229	12,875	3.04	1,913	0.45					43,930	196,270	137,941	206,084	56.80	81.35
Board of Elections 284 Wall	3,566	57,787	16.20	779	0.22					197,169	79,925	619,111	83,922	77.70	197.15
Carr Building	3,560	43,934	12.34	3,851	1.08					149,901	395,128	470,691	414,885	153.10	248.76
Ulster Heights Substation & salt shed	3,545	14,769	4.17					2739	0.77	50,391	251,951	158,228	254,471	85.29	116.42
Safety Hutton Building (vacant)	3,386	929	0.27							3,168		9,948		0.94	2.94
Sundown Substation	3,040	8,645	2.84					2934	0.97	29,497	269,956	92,622	272,655	98.50	120.16
Shandaken Substation (39461533)	3,020	12,833	4.25					2778	0.92	43,785	255,558	137,484	258,113	99.12	130.99
21 O'Neill St	2,400	31,405	13.09	784	0.33					107,154	80,438	336,463	84,460	78.16	175.38
Shandaken Substation salt storage (9994060)	2,344	2,656	1.13							9,061		28,451		3.87	12.14
Accord Substation	2,324	39,598	17.04							135,110		424,245		58.14	182.55
Plattekill Station	2,265	20,236	8.93					1220	0.54	69,046	112,258	216,804	113,381	80.05	145.78
Emergency Management E-911	2,130	150,818	70.81	836	0.39			130	0.06	514,591	87,669.600†	1,615,817	91,575.048†	272.73	772.86
Tourism 20 Broadway	2,087	19,748	9.46	1,249	0.60					67,380	128,147	211,574	134,555	93.69	165.85
Sundown Salt Storage	1,944	2,882	1.48							9,832		30,874		5.06	15.88
Sheriff's Substation Ellenville	1,534	11,580	7.55					893	0.58	39,511	82,147	124,064	82,968	79.31	134.96
Ulster Landing Park Caretaker House	1,218	250	0.21							853		2,678		0.70	2.20
280 Rt 299	1,100	4,258	3.87	486	0.44					14,528	49,864	45,619	52,357	58.54	89.07
Ulster Landing Park Garage and Storage	1,080	2,341	2.17							7,988		25,081		7.40	23.22

Ulster County 2016 Climate Smart Communities Benchmarking Analysis

Electric usage in kWh

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Building	January	February	March	April	May	June	July	August	September	October	November	December	Total
Persen House	86	75	64	116	166	255	303	273	118	121	83	80	1,740
Courthouse	53,946	51,007	48,488	44,802	51,989	54,508	71,700	72,858	58,315	50,159	50,977	56,584	665,333
UC Office Building	64,059	61,532	61,934	57,052	71,583	79,816	103,041	116,348	101,746	80,329	64,720	62,832	924,992
Flatbush Annex	20,830	20,612	17,860	16,429	17,420	16,744	21,163	24,436	18,105	14,175	15,141	18,219	221,135
Information Services	55,672	52,540	55,443	53,322	57,081	56,913	66,895	64,515	56,884	52,401	51,535	54,742	677,944
17 Pearl St.	1,273	853	1,044	1,089	904	833	988	1,070	787	1,004	1,085	1,945	12,875
Carr Building	3,815	4,362	3,744	3,319	2,781	2,686	3,723	3,463	2,544	3,217	4,762	5,519	43,934
Public Works Building	17,127	13,897	11,413	10,231	9,035	8,747	12,272	11,417	8,630	9,822	11,839	15,868	140,299
Old Jail Storage Garage	15,688	13,425	9,084	6,911	3,344	1,555	1,494	1,382	1,224	4,584	9,403	13,449	81,543
Old UC Jail	28,549	25,207	19,157	16,663	11,188	8,718	8,460	7,768	6,776	8,696	11,095	26,038	178,316
Trudy Resnick Farber Building	13,987	13,230	14,381	16,487	21,431	22,520	23,597	22,430	20,445	14,850	14,321	13,310	210,988
Emergency Management E-911	12,979	12,340	12,571	11,813	12,338	12,270	13,386	13,340	12,226	12,355	12,565	12,636	150,818
Mental Health Building	46,201	41,896	41,316	39,236	46,257	46,530	62,121	62,717	50,433	43,626	41,841	45,316	567,489
Safety (vacant)	115	98	88	78	76	71	74	76	72	60	47	72	929
Family Court	13,350	13,042	15,085	17,100	22,523	20,688	28,765	26,302	20,466	16,107	14,682	15,080	223,190
Central Auto	3,449	3,180	3,067	2,969	2,443	2,006	2,298	2,316	1,883	2,253	2,655	3,310	31,831
Community Correctional Facility	10,399	9,091	8,383	7,262	6,272	6,338	8,164	7,612	5,964	5,843	6,825	7,759	89,911
Ulster Ave. Office Complex (DSS)	62,492	59,662	61,536	58,219	67,941	75,980	84,420	85,860	74,649	64,428	56,224	60,264	811,674
UC Record Storage	38,731	33,909	32,781	31,071	38,631	56,816	66,221	68,480	56,438	38,363	33,445	42,621	537,506
Probation Department	14,897	14,125	12,496	11,042	13,626	14,648	19,404	19,058	15,262	13,250	13,583	15,290	176,682
UCAT	36,380	32,270	27,716	25,615	25,410	25,252	26,071	25,753	25,490	30,051	34,052	40,095	354,154
UC Law Enforcement Center	364,911	343,122	363,684	365,162	434,214	456,934	523,914	528,955	452,582	394,484	346,158	365,341	4,939,461
Accord Substation	7,679	7,028	4,474	2,209	1,005	567	690	611	391	1,507	3,749	9,689	39,598
Boiceville Substation	4,710	3,936	2,782	2,037	1,300	913	1,108	1,197	881	1,485	1,868	3,747	25,964
Heavy Vehicle Maintenance Complex	15,780	14,160	10,867	9,862	8,385	8,426	12,909	11,321	7,437	9,151	12,139	16,289	136,725
New Paltz Salt Storage	9,328	7,341	3,947	1,550	0	0	0	0	0	868	3,441	6,848	33,323
Plattekill Station	3,690	3,269	1,884	1,013	531	470	576	559	392	845	1,993	5,014	20,236
Saugerties Substation	5,056	4,392	3,362	1,845	555	442	474	450	403	701	1,330	2,950	21,961
Shandaken Substation (39461533)	2,190	3,373	1,652	466	203	213	198	164	174	227	1,013	2,961	12,833
Shandaken Substation (99940604)	251	507	341	278	116	115	119	119	130	164	224	292	2,656
Shawangunk Substation	1,687	1,747	1,652	1,153	717	439	1,640	1,721	1,093	700	749	1,266	14,564
Sundown Salt Storage	472	346	261	168	115	114	109	160	146	205	339	449	2,882
Sundown Substation	1,065	978	841	782	641	483	518	504	472	634	699	1,028	8,645
Ulster Heights Substation	2,537	2,432	1,645	1,529	589	467	468	480	497	737	1,098	2,291	14,769
West Hurley Substation	5,729	5,108	3,979	3,713	3,102	2,855	2,210	2,899	2,565	2,940	4,040	5,062	44,202
Veterans' Home	1,103	801	790	806	1,178	1,471	2,425	2,341	1,744	1,226	1,179	1,041	16,106
Ulster Landing Park Garage and Storage	195	190	205	200	204	193	218	220	173	189	146	209	2,341
Ulster Landing Park Caretaker House	8.00	8.00	0.00	0.00	0.00	0.00	0.00	8.00	1.00	1.00	0.00	2.00	222.00
SUNY Ulster Kingston Center	24,080	23,600	20,880	19,280	32,480	32,960	34,720	34,720	34,800	22,320	24,320	23,920	328,080
Business Resource Center	34,575	33,269	36,946	35,831	39,944	47,075	58,590	57,120	44,535	33,153	32,982	34,596	488,616
UC Pool New Paltz	900	788	964	1,234	5,094	11,073	16,028	15,361	7,432	1,604	961	769	62,208

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Natural Gas usage in ccf
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Building	January	February	March	April	May	June	July	August	September	October	November	December	Total
Courthouse	2,810	2,430	1,489	847	249	64	60	60	94	441	1,213	2,302	12,060
UC Office Building	5,020	4,263	2,982	2,030	776	315	269	344	577	1,549	3,332	4,033	25,491
Flatbush Annex	1,746	1,705	717	413	118	45	44	33	56	224	662	1,464	7,227
Information Services	1,058	1,021	655	417	236	212	111	0	0	42	329	451	4,532
17 Pearl St.	445	373	205	148	42	1	1	0	1	100	247	349	1,913
Carr Building	807	678	436	326	110	18	13	13	22	219	469	740	3,851
Public Works Building	566	442	284	213	78	17	7	7	5	39	277	678	2,612
Emergency Management E-911	177	155	90	65	19	1	0	0	3	41	91	196	836
Mental Health Building	2,116	1,283	755	557	211	42	29	27	33	223	641	1,767	7,683
Ulster Ave. Office Complex (DSS)	4,631	4,055	2,378	1,806	817	368	90	310	683	1,927	3,477	5,537	26,078
UC Record Storage	2,107	1,974	1,023	720	573	458	397	386	992	1,264	889	1,901	12,684
Probation Department	1,811	1,513	998	662	181	36	21	7	18	215	811	1,521	7,795
UCAT	2,405	2,039	1,413	872	233	24	18	2	0	726	1,146	2,616	11,494
Heavy Vehicle Maintenance Complex	4,952	4,571	3,630	1,650	469	80	17	16	56	881	2,789	4,518	23,631
Veterans' Home	557	496	303	207	82	19	16	16	22	151	368	533	2,768
Business Resource Center	2,573	2,351	1,512	1,240	407	127	163	93	61	660	1,518	2,311	13,016
SUNY Ulster Kingston Center	3,398	3,027	2,022	1,456	1,021	640	680	710	740	1,100	1,804	2,542	19,140

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Building	Electricity (kWh)	Electricity (MBtu)	Natural Gas (CCF)	Natural Gas (MBtu)	Oil (gal.)	Oil (MBtu)	Propane (gal.)	Propane (MBtu)	Indirect CO ₂ EQ Emissions (kg)	Direct CO ₂ EQ Emissions (kg)	Total CO ₂ EQ Emissions (kg)
Persen House	1,740	6							324		324
Courthouse	665,333	2,270	12,060	1,237					123812	65718	189530
UC Office Building	924,992	3,156	25,491	2,615					172132	138903	311035
Flatbush Annex	221,135	755	7,227	742					41151	39383	80534
Information Services	677,944	2,313	4,532	465					126159	24694	150852
17 Pearl St.	12,875	44	1,913	196					2396	10424	12820
Carr Building	43,934	150	3,851	395					8176	20985	29161
Public Works Building	140,299	479	2,612	268	262	36			26108	16909	43017
Old Jail Storage Garage	81,543	278							15174		15174
Old UC Jail	178,316	608							33183		33183
Trudy Resnick Farber Building	210,988	720			#####	1,572			39263	116641	155904
Emergency Management E-911	150,818	515	836	86			130	12	28066	5325	33391
Mental Health Building	567,489	1,936	7,683	788					105604	41867	147472
Safety (vacant)	929	3							173		173
Family Court	223,190	762			7,047	973			41534	72171	113705
Central Auto	31,831	109			2,174	300			5923	22266	28189
Community Correctional Facility	89,911	307					2,849	262	16732	16840	33571
Ulster Ave. Office Complex (DSS)	811,674	2,769	26,078	2,676					151045	142102	293146
UC Record Storage	537,506	1,834	12,684	1,301					100025	69115	169140
Probation Department	176,682	603	7,795	800					32879	42475	75354
UCAT	354,154	1,208	11,494	1,179					65905	62632	128537
UC Law Enforcement Center	4,939,461	16,853			#####	16,286			919187	1208579	2127766
Accord Substation	39,598	135							7369		7369
Boiceville Substation	25,964	89					2,480	228	4832	14659	19490
Heavy Vehicle Maintenance Complex	136,725	467	23,631	2,425	2,704	373	2,095	193	25443	168841	194284
New Paltz Salt Storage	33,323	114							6201		6201
Plattekill Station	20,236	69					1,220	112	3766	7213	10978
Saugerties Substation	21,961	75					2,113	194	4087	12492	16579
Shandaken Substation (39461533)	12,833	44					2,778	256	2388	16420	18808
Shandaken Substation (99940604)	2,656	9							494		494
Shawangunk Substation	14,564	50							2710		2710
Sundown Salt Storage	2,882	10							536		536
Sundown Substation	8,645	29					2,934	270	1609	17345	18953
Ulster Heights Substation	14,769	50					2,739	252	2748	16188	18936
West Hurley Substation	44,202	151			2,853	394			8226	29218	37443
Veterans' Home	16,106	55	2,768	284					2997	15085	18082
Ulster Landing Park Garage and Storage	2,341	8							436		436
Ulster Landing Park Caretaker House	250	1							47		47
SUNY Ulster Kingston Center	293,360	1,001	19,140	1,964	SUNY				54592	104296	158887
Business Resource Center	488,616	1,667	13,016	1,335					90927	70924	161850
Sheriff's Substation Ellenville	11,580	40					893	82	2155	5278	7433
Board of Elections	57,787	197	779	80					10754	4245	14998
21 O'Neill St	31,405	107	784	80					5844	4272	10116
280 Rt 299	4,258	15	486	50					792	2648	3441