

2018 Commercial Buildings Energy Consumption Survey (CBECS) public use microdata file

Data Dictionary

Variable name	Variable type	Label	Values/Format codes
PUBID	Char	Public use file building identifier	00001 – 06436
PBA	Num	Principal building activity	1=Vacant 2=Office 4=Laboratory 5=Nonrefrigerated warehouse 6=Food sales 7=Public order and safety 8=Outpatient health care 11=Refrigerated warehouse 12=Religious worship 13=Public assembly 14=Education 15=Food service 16=Inpatient health care 17=Nursing 1
PUBCLIM	NUM	Third-party data: ASHRAE climate zone	1=Cold or very cold 2=Cool 3=Mixed mild 4=Warm 5=Hot or very hot 7=Withheld for confidentiality
SQFT	Num	Square footage	1,001 – 2,100,000

WLCNS	Num	Wall construction material	1=Brick, stone, or stucco 2=Pre-cast concrete panels 3=Concrete block or poured concrete (above grade) 4=Aluminum, asbestos, plastic, or wood materials (siding, shingles, tiles,5=Sheet metal panels 6=Window or vision glass (glass that can be seen through)
RFCNS	Num	Roof construction material	1=Built-up (tar, felts, or fiberglass and a ballast, such as stone) 2=Slate or tile shingles 3=Wood shingles, shakes, or other wooden materials 4=Asphalt, fiberglass, or other shingles 5=Metal surfacing 6=Plastic, rubber, or synthetic sheeting (single or
BLDSHP	Num	Building shape	1=Square 2=Wide rectangle 3=Narrow rectangle 4=Rectangle or square with an interior courtyard 5="H" shaped 6="U" shaped 7="E" shaped 8="T" shaped 9="L" shaped 10="+" or cross shaped 11=Other shape
GLSSPC	Num	Percent exterior glass	1=1% or less 2=2 to 10% 3=11 to 25% 4=26 to 50% 5=51 to 75% 6=76 to 100%
NFLOOR	Num	Number of floors	1 – 9 994=10 to 14 995=15 or more

ELEVTR	Num	Elevators	1=Yes 2=No Missing=Not applicable
NELVTR	Num	Number of elevators	1 – 30 995=More than 30 Missing=Not applicable
YRCONC	Num	Year of construction category	2=Before 1946 3=1946 to 1959 4=1960 to 1969 5=1970 to 1979 6=1980 to 1989 7=1990 to 1999 8=2000 to 2012 9=2013 to 2018
WKHRSC	Num	Weekly hours category	1=No hours 2=1 to 39 3=40 to 48 4=49 to 60 5=61 to 84 6=85 to 167 7=168
ELHT1	Num	Electricity used for main heating	1=Yes 2=No
NGHT1	Num	Natural gas used for main heating	1=Yes 2=No
ELHT2	Num	Electricity used for secondary heating	1=Yes 2=No
NGHT2	Num	Natural gas used for secondary heating	1=Yes 2=No
BOILER_EL	Num	Boilers powered by electricity	1=Yes 2=No Missing=Not applicable
HTPMPH_EL	Num	Heat pumps powered by electricity	1=Yes 2=No Missing=Not applicable
OTHTEQ_EL	Num	Other heating equipment powered by electricity	1=Yes 2=No Missing=Not applicable
PKGHT_NG	Num	Packaged central units fueled by natural gas	1=Yes 2=No Missing=Not applicable

BOILER_NG	Num	Boilers fueled by natural gas	1=Yes 2=No Missing=Not applicable
ELCOOL	Num	Electricity used for air conditioning	1=Yes 2=No
ELWATR	Num	Electricity used for water heating	1=Yes 2=No
NGWATR	Num	Natural gas used for water heating	1=Yes 2=No
NGOTH	Num	Natural gas used for some other use	1=Yes 2=No
HDD65	Num	Third-party data: Heating degree days (base 65)	402 – 10,790
CDD65	Num	Third-party data: Cooling degree days (base 65)	10 – 5,643
ELBTU	Num	Building/energy supplier variable: Annual electricity consumption (thous Btu)	124 – 388,036,704 Missing=Not applicable
NGBTU	Num	Building/energy supplier variable: Annual natural gas consumption (thous Btu)	103 – 456,926,121 Missing=Not applicable
ELCNS	Num	Building/energy supplier variable: Annual electricity consumption (kWh)	36 – 113,727,053 Missing=Not applicable
NGCNS	Num	Building/energy supplier variable: Annual natural gas consumption (ccf)	1 – 4,401,986 Missing=Not applicable
CDD_LOW	Num	Cooling degree days low range amount	1800, 2700, 4500
CDD_HI	Num	Cooling degree days high range amount	6300, 6300, 6300
HDD_LOW	Num	Heating degree days low range amount	5400, 3600, 1800
HDD_HI	Num	Heating degree days high range amount	7200, 5400, 3600
CDD_AVG	Num	Cooling degree days mid-range amount	4050, 4500, 5400
HDD_AVG	Num	Heating degree days mid-range amount	6300, 4500, 2700
CDD_RANGE	object	In cooling degree days range	yes or no
HDD_RANGE	object	In heating degree days range	yes or no

