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Loads summary

1. COOLING

1.1. Dining room

Zone cooling loads summary: Dining room

	External					Internal		Ventilation			Total			
	A (m ²)	Conduction (W)	Solar (W)	Lat. inf. (W)	Sens. inf. (W)	Lat. (W)	Sens. (W)	Airflow (l/s)	Lat. (W)	Sens. (W)	Lat. (W)	Sens. (W)	Total (W/m ²)	Total (W)
Peak cooling loads per space														
Dining room	50.51	158.78	920.64	0.00	0.00	2827.83	2930.67	166.13	-2.87	432.93	2824.96	4443.01	143.89	7267.97
Zone simultaneous peak cooling load: 21 of July at 14h (13 apparent solar time)														
Dining room	50.51							166.13			2824.96	4443.01	143.89	7267.97

1.2. Offices and corridors

Zone cooling loads summary: Offices and corridors

	External					Internal		Ventilation			Total			
	A (m ²)	Conduction (W)	Solar (W)	Lat. inf. (W)	Sens. inf. (W)	Lat. (W)	Sens. (W)	Airflow (l/s)	Lat. (W)	Sens. (W)	Lat. (W)	Sens. (W)	Total (W/m ²)	Total (W)
Peak cooling loads per space														
Office 1	13.92	89.47	502.70	0.00	0.00	156.62	484.46	29.58	-0.51	77.09	156.11	1153.73	94.08	1309.84
Office 2	31.34	103.26	457.41	0.00	0.00	352.62	1062.51	66.61	48.38	244.22	401.01	1867.39	72.37	2268.40
Meeting room	33.14	145.43	718.97	0.00	0.00	745.74	1619.86	140.86	102.33	516.49	848.07	3000.74	116.12	3848.81
Office 3	16.75	61.60	1345.15	0.00	0.00	188.48	565.97	35.60	-0.62	92.77	187.86	2065.50	134.50	2253.36
Office 4	21.85	89.55	806.81	0.00	0.00	245.84	745.87	46.44	23.42	155.80	269.26	1798.03	94.60	2067.29
Office 5	31.34	96.09	460.87	0.00	0.00	352.62	1070.68	66.61	48.38	244.22	401.01	1871.86	72.51	2272.87
Meeting room 2	33.14	258.48	742.66	0.00	0.00	745.74	1649.48	140.86	102.33	516.49	848.07	3167.11	121.14	4015.18
Office 7	16.75	-37.61	1371.05	0.00	0.00	188.48	566.12	35.60	17.51	-70.83	205.99	1828.73	121.45	2034.72
Office 6	21.85	84.66	811.73	0.00	0.00	245.84	750.56	46.44	23.42	155.80	269.26	1802.74	94.82	2072.00
Office 8	17.87	141.09	249.56	0.00	0.00	201.09	619.14	37.98	27.59	139.27	228.68	1149.06	77.08	1377.74

Loads summary

Office 10	18.02	130.36	653.24	0.00	0.00	202.74	628.33	38.30	27.82	140.42	230.56	1552.34	98.93	1782.91
Office 9	19.46	166.65	439.85	0.00	0.00	218.88	683.97	41.34	30.03	151.59	248.91	1442.06	86.91	1690.97
Zone simultaneous peak cooling load: 21 of July at 16h (15 apparent solar time)														
Offices and corridors	275.46							726.22			4372.25	22174.90	96.37	26547.14

Abbreviations

A	Area
Conduction	Conduction heating load
Solar	Solar heating load
Lat. inf.	Latent infiltration
Sens. inf.	Sensible infiltration
Lat.	Latent
Sens.	Sensible

2. HEATING

2.1. Dining room

Zone heating loads summary: Dining room

	External				Ventilation			Total			
	A (m ²)	Conduction (W)	Lat. inf. (W)	Sens. inf. (W)	Airflow (l/s)	Lat. (W)	Sens. (W)	Lat. (W)	Sens. (W)	Total (W/m ²)	Total (W)
Peak heating loads per space											
Dining room	50.51	2416.40	0.00	0.00	166.13	965.17	4751.52	965.17	7167.92	161.01	8133.09
Zone simultaneous peak heating load											

Loads summary

Dining room	50.51	166.13	965.17 7167.92 161.01 8133.09
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2.2. Offices and corridors

Zone heating loads summary: Offices and corridors

	External				Ventilation			Total			
	A (m ²)	Conduction (W)	Lat. inf. (W)	Sens. inf. (W)	Airflow (l/s)	Lat. (W)	Sens. (W)	Lat. (W)	Sens. (W)	Total (W/m ²)	Total (W)
Peak heating loads per space											
Office 1	13.92	921.39	0.00	0.00	29.58	171.87	846.12	171.87	1767.51	139.30	1939.38
Office 2	31.34	1086.25	0.00	0.00	66.61	386.95	1904.96	386.95	2991.21	107.78	3378.16
Meeting room	33.14	1068.55	0.00	0.00	140.86	818.35	4028.73	818.35	5097.29	178.48	5915.64
Office 3	16.75	585.41	0.00	0.00	35.60	206.83	1018.23	206.83	1603.63	108.06	1810.46
Office 4	21.85	683.92	0.00	0.00	46.44	269.78	1328.11	269.78	2012.03	104.42	2281.81
Office 5	31.34	1019.59	0.00	0.00	66.61	386.95	1904.96	386.95	2924.56	105.65	3311.51
Meeting room 2	33.14	1109.60	0.00	0.00	140.86	818.35	4028.73	818.35	5138.33	179.72	5956.68
Office 7	16.75	541.96	0.00	0.00	35.60	206.83	1018.23	206.83	1560.19	105.47	1767.02
Office 6	21.85	645.74	0.00	0.00	46.44	269.78	1328.11	269.78	1973.86	102.67	2243.64
Office 8	17.87	800.58	0.00	0.00	37.98	220.66	1086.32	220.66	1886.90	117.91	2107.57
Office 10	18.02	894.47	0.00	0.00	38.30	222.48	1095.27	222.48	1989.75	122.75	2212.23
Office 9	19.46	747.19	0.00	0.00	41.34	240.19	1182.43	240.19	1929.62	111.53	2169.81
Zone simultaneous peak heating load											
Offices and corridors	275.46				726.22			4219.03	30874.87	127.40	35093.90

Abbreviations

A	Area
Conduction	Conduction heating load
Lat. inf.	Latent infiltration

Loads summary

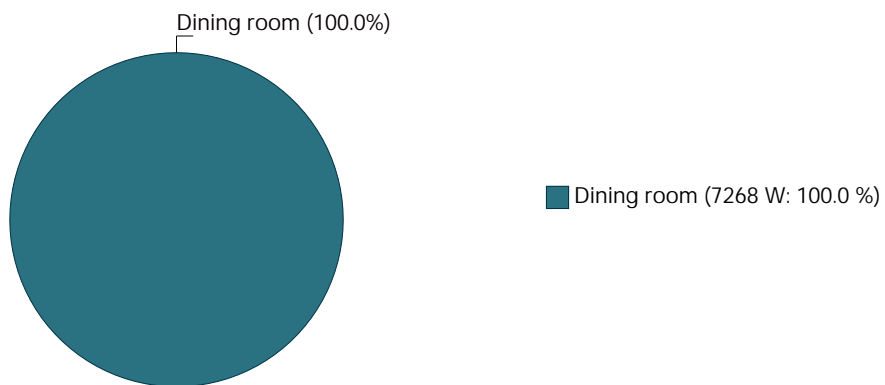
Sens. inf.	Sensible infiltration
Lat.	Latent
Sens.	Sensible

3. GRAPHS

3.1. Dining room

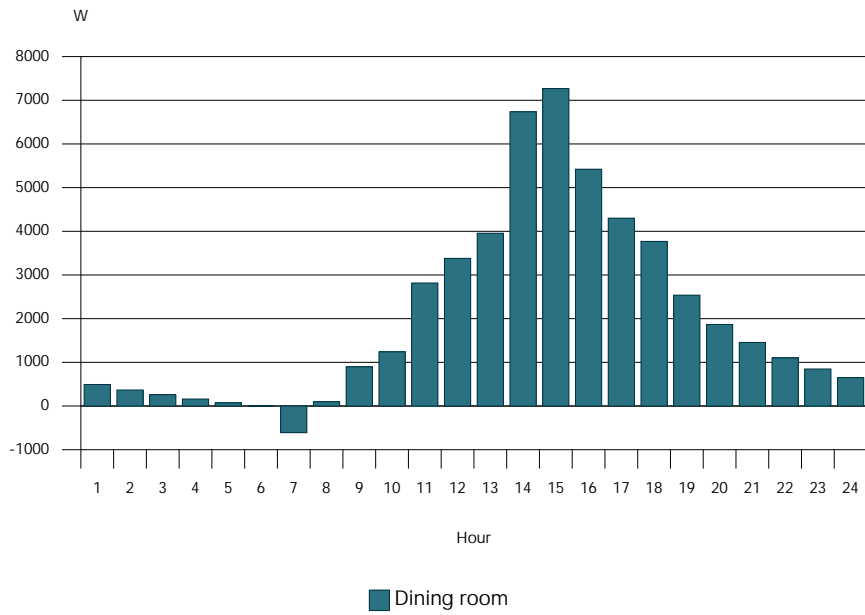
Simultaneous peak cooling load (7268 W)

21 of July at 14h (13 apparent solar time)

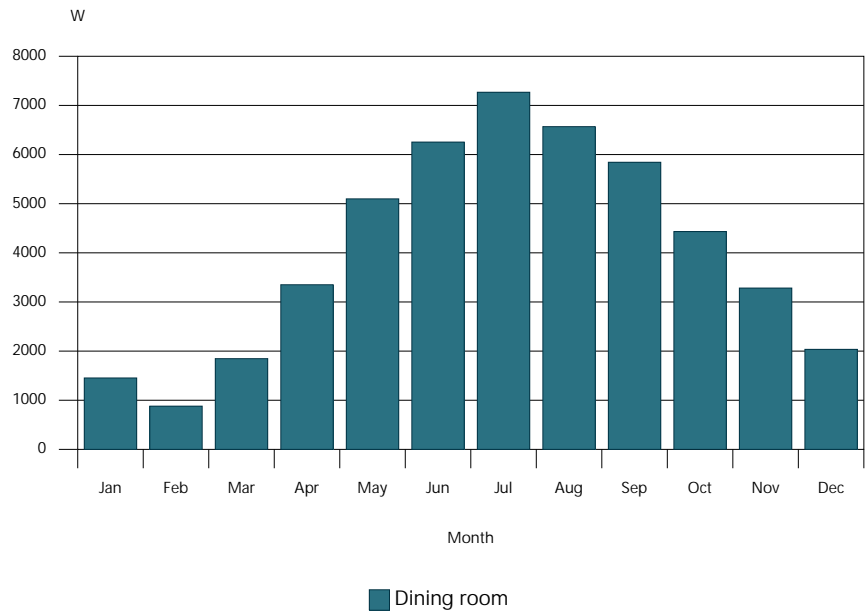


Hourly peak cooling load progression (21 of July)

Loads summary

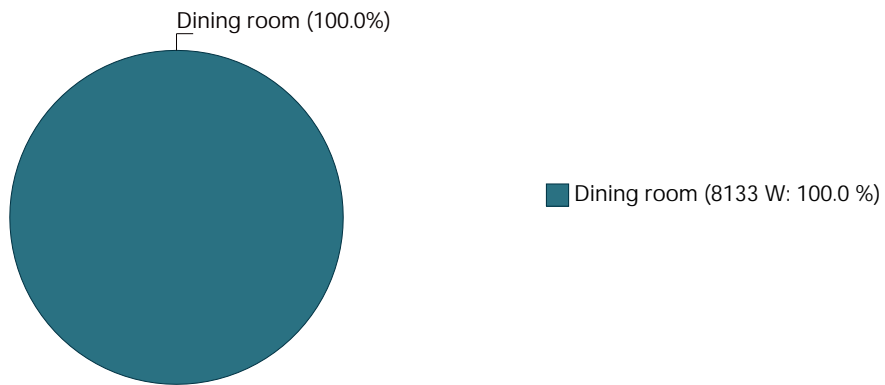


Annual peak cooling load progression



Peak heating load (8133 W)

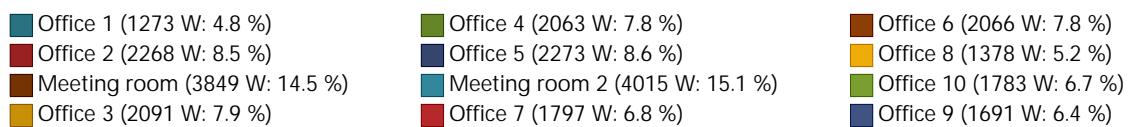
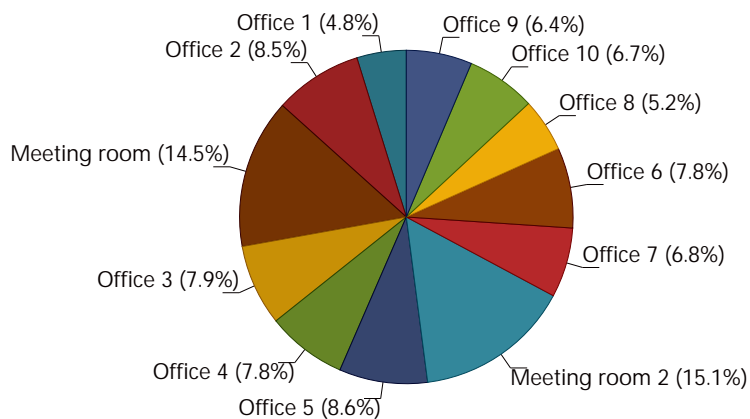
Loads summary



3.2. Offices and corridors

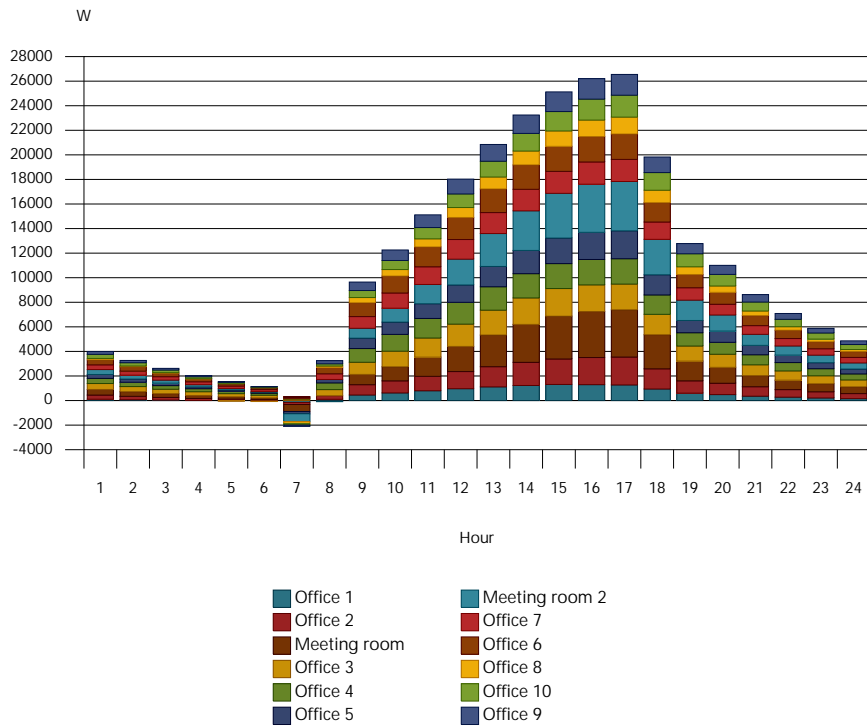
Simultaneous peak cooling load (26547 W)

21 of July at 16h (15 apparent solar time)

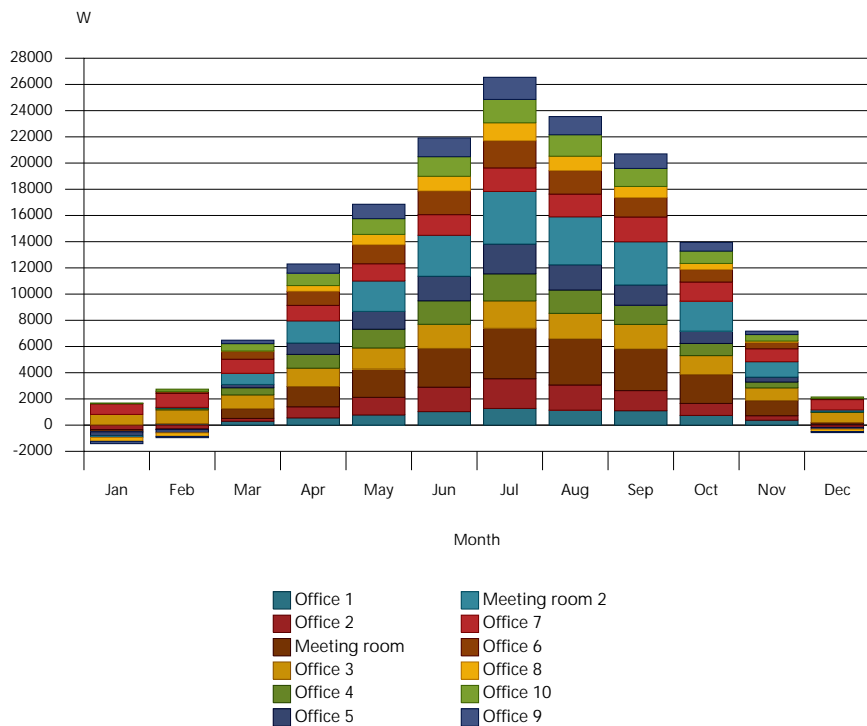


Hourly peak cooling load progression (21 of July)

Loads summary

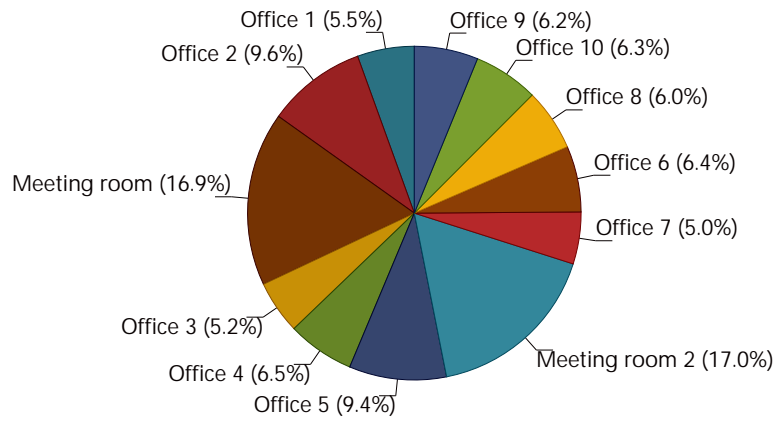


Annual peak cooling load progression



Loads summary

Peak heating load (35094 W)



Office 1 (1939 W: 5.5 %)
Office 2 (3378 W: 9.6 %)
Meeting room (5916 W: 16.9 %)
Office 3 (1810 W: 5.2 %)

Office 4 (2282 W: 6.5 %)
Office 5 (3312 W: 9.4 %)
Meeting room 2 (5957 W: 17.0 %)
Office 7 (1767 W: 5.0 %)

Office 6 (2244 W: 6.4 %)
Office 8 (2108 W: 6.0 %)
Office 10 (2212 W: 6.3 %)
Office 9 (2170 W: 6.2 %)