

Weather File

Change Weather File

Name: Piacenza

Latitude: 44.92

Longitude: 9.73

Elevation: 134

Time Zone: 1

Download weather files at www.energyplus.gov

Measure Tags (Optional):

ASHRAE Climate Zone

CEC Climate Zone

Select Year by:

☐ Calendar Year

2000

☒ First Day of Year

Sunday

Daylight Savings Time:

off

Starts

☐ Define by Day of The Week And Month

First

Sunday

January

☐ Define by Date

1/1/2000

Ends

☐ Define by Day of The Week And Month

First

Sunday

January

☐ Define by Date

1/1/2000

Design Days

Import From DDY

Design Days

Date

Temperature

Humidity

Pressure
Wind
Precipitation

Solar

Custom

Design Day Name

All

Day Of Month

Month

Day Type

Daylight Saving Time Indicator

☐

Apply to Selected

Apply to Selected

Apply to Selected

Piacenza Ann Clg ,4% Condns DB=>MWB

☐

21

8

SummerDesignDay

☐

Run



100%

Finished

Warnings: 10**Errors:** 0

Output

Continuing Simulation at 03/02 for RUN PERIOD 1
Updating Shadowing Calculations, Start Date=03/22
Continuing Simulation at 03/22 for RUN PERIOD 1
Updating Shadowing Calculations, Start Date=04/11
Continuing Simulation at 04/11 for RUN PERIOD 1
Updating Shadowing Calculations, Start Date=05/01
Continuing Simulation at 05/01 for RUN PERIOD 1
Updating Shadowing Calculations, Start Date=05/21
Continuing Simulation at 05/21 for RUN PERIOD 1
Updating Shadowing Calculations, Start Date=06/10
Continuing Simulation at 06/10 for RUN PERIOD 1
Updating Shadowing Calculations, Start Date=06/30
Continuing Simulation at 06/30 for RUN PERIOD 1
Updating Shadowing Calculations, Start Date=07/20
Continuing Simulation at 07/20 for RUN PERIOD 1
Updating Shadowing Calculations, Start Date=08/09
Continuing Simulation at 08/09 for RUN PERIOD 1
Updating Shadowing Calculations, Start Date=08/29
Continuing Simulation at 08/29 for RUN PERIOD 1
Updating Shadowing Calculations, Start Date=09/18
Continuing Simulation at 09/18 for RUN PERIOD 1
Updating Shadowing Calculations, Start Date=10/08
Continuing Simulation at 10/08 for RUN PERIOD 1
Updating Shadowing Calculations, Start Date=10/28
Continuing Simulation at 10/28 for RUN PERIOD 1
Updating Shadowing Calculations, Start Date=11/17
Continuing Simulation at 11/17 for RUN PERIOD 1
Updating Shadowing Calculations, Start Date=12/07
Continuing Simulation at 12/07 for RUN PERIOD 1
Updating Shadowing Calculations, Start Date=12/27
Continuing Simulation at 12/27 for RUN PERIOD 1
Writing tabular output file results using HTML format.
Computing Life Cycle Costs and Reporting
Writing final SQL reports
EnergyPlus Run Time=00hr 00min 26.86sec
Script executing from: C:/Users/carav/AppData/Local/Temp/OpenStudio.S10216/resources/run/6-UserScript-0
Found UserScript 'OpenStudio Results'.
result = true
Processed 1 base script and 0 merged scripts

Reports: EnergyPlus Results

[Open ResultsViewer
for Detailed Reports](#)Program Version: **EnergyPlus, Version 8.5.0-c87e61b44b, YMD=2019.11.10 22:22**[Table of Contents](#)Tabular Output Report in Format: **HTML**Building: **Building 1**Environment: **RUN PERIOD 1 ** Piacenza - ITA IGDG WMO#=160840**Simulation Timestamp: **2019-11-10 22:22:06**Report: **Annual Building Utility Performance Summary**[Table of Contents](#)For: **Entire Facility**Timestamp: **2019-11-10 22:22:06**Values gathered over **8760.00 hours****Site and Source Energy**

	Total Energy [GJ]	Energy Per Total Building Area [MJ/m2]	Energy Per Conditioned Building Area [MJ/m2]
Total Site Energy	2372.70	659.08	659.08
Net Site Energy	2372.70	659.08	659.08
Total Source Energy	6126.52	1701.81	1701.81

189.1-2009 - CZ1 - Office

189.1-2009 - CZ2 - Office

189.1-2009 - CZ3 - Office

189.1-2009 - CZ4 - Office

189.1-2009 - CZ5 - Office

189.1-2009 - CZ6 - Office

189.1-2009 - CZ7-8 - Office

New Construction Set

Drag From Library

Name

New Construction Set

Exterior Surface Constructions

Walls

ASHRAE
189.1-2009
ExtWall Mass
ClimateZone 1

Floors

ExtSlabCarpet
4in
ClimateZone
1-8

Roofs

ASHRAE
189.1-2009
ExtRoof IEAD
ClimateZone 1

Interior Surface Constructions

Walls

Interior Wall

Floors

Interior Floor

Ceilings

Interior Ceiling

Ground Contact Surface Constructions

Walls

ExtSlabCarpet
4in
ClimateZone
1-8

Floors

ExtSlabCarpet
4in
ClimateZone
1-8

Ceilings

ExtSlabCarpet
4in
ClimateZone
1-8

Exterior Sub Surface Constructions

Fixed Windows

ASHRAE
189.1-2009
ExtWindow
ClimateZone 1

Operable Windows

ASHRAE
189.1-2009
ExtWindow
ClimateZone 1

Doors

Exterior Door

Constructions

Air Wall

ASHRAE 189.1-2009 ExtRoof IEAD
ClimateZone 1

ASHRAE 189.1-2009 ExtRoof IEAD
ClimateZone 2-5

ASHRAE 189.1-2009 ExtRoof IEAD
ClimateZone 7-8

ASHRAE 189.1-2009 ExtRoof
Metal ClimateZone 6

ASHRAE 189.1-2009 ExtWall Mass
ClimateZone 1

ASHRAE 189.1-2009 ExtWall Mass
ClimateZone 2

ASHRAE 189.1-2009 ExtWall Mass
ClimateZone 3

ASHRAE 189.1-2009 ExtWall Mass
ClimateZone 4

ASHRAE 189.1-2009 ExtWall Mass
ClimateZone 5

- Interior Door
- Interior Floor
- Interior Partition
- Interior Wall
- Interior Window
- New Construction - External Wall

- Internal Source Constructions
- C-factor Underground Wall Constructions
- F-factor Ground Floor Constructions

Drag From Library

Fenestration Divider Type:

Fenestration Tint:

Fenestration Gas Fill:

Fenestration Low Emissivity Coating:

Layer:

Outside

M11 100mm
lightweight
concrete



I01 25mm
insulation
board



Wall Insulation
[31]



M11 100mm
lightweight
concrete



F16 Acoustic
tile



Drag From Library

1/2IN Gypsum

1IN Stucco

8IN Concrete HW

F08 Metal surface

F16 Acoustic tile

G01a 19mm gypsum
board

G05 25mm wood

I01 25mm insulation
board

M11 100mm
lightweight concrete

MAT-CC05 4 HW
CONCRETE

Metal Decking

 F16 Acoustic tile


 G01a 19mm gypsum board

 G05 25mm wood

 I01 25mm insulation board

 M11 100mm lightweight concrete

 New Material - Light Concrete

 MAT-CC05 4 HW CONCRETE

 Metal Decking



Drag From Library

Name:

New Material - Light Concrete

Measure Tags (Optional):

Standard:

Standard Source:

Standards Category:

Standards Identifier:

Composite Framing Material:

Composite Framing Configuration:

Composite Framing Depth:

Composite Framing Size:

Composite Cavity Insulation:

Roughness:

Thickness:

m

Conductivity:

W/m·K

Density:

kg/m³


Specific Heat:

J/kg·K


Thermal Absorptance:




 Interior Door

 Interior Floor

 Interior Partition

 Interior Wall

 Interior Window

 New Construction - External Wall

Internal Source Constructions

C-factor Underground Wall Constructions

F-factor Ground Floor Constructions

Drag From Library

Fenestration Divider Type:

Fenestration Tint:



Fenestration Gas Fill:

Fenestration Low Emissivity Coating:

Layer:

Outside

 I01 25mm insulation board 

 Wall Insulation [31] 


 M11 100mm lightweight concrete 


 New Material - Light Concrete 

 F16 Acoustic tile 

Drag From Library


Materials


 1/2IN Gypsum

 1IN Stucco

 8IN Concrete HW


 F08 Metal surface


 F16 Acoustic tile

 G01a 19mm gypsum board

 G05 25mm wood

 I01 25mm insulation board

 M11 100mm lightweight concrete

 MAT-CC05 4 HW CONCRETE

189.1-2009 - CZ1 - Office

189.1-2009 - CZ2 - Office

189.1-2009 - CZ3 - Office

189.1-2009 - CZ4 - Office

189.1-2009 - CZ5 - Office

189.1-2009 - CZ6 - Office

189.1-2009 - CZ7-8 - Office

New Construction Set

Drag From Library

Name

New Construction Set

Exterior Surface Constructions

Walls



New Construction - External Wall



Floors



ExtSlabCarpet
4in
ClimateZone
1-2



Roofs



ASHRAE
189.1-2009
ExtRoof IEAD
ClimateZone 1



Interior Surface Constructions

Walls



Interior Wall



Floors



Interior Floor



Ceilings



Interior Ceiling



Ground Contact Surface Constructions

Walls



ExtSlabCarpet
4in
ClimateZone
1-2



Floors



ExtSlabCarpet
4in
ClimateZone
1-2



Ceilings



ExtSlabCarpet
4in
ClimateZone
1-2



Exterior Sub Surface Constructions

Fixed Windows



ASHRAE
189.1-2009
ExtWindow
ClimateZone 1



Operable Windows



ASHRAE
189.1-2009
ExtWindow
ClimateZone 1



Doors



Exterior Door



ClimateZone 1-2



Interior Ceiling



Interior Door



Interior Floor



Interior Partition



Interior Wall



Interior Window



New Construction - External Wall

Internal Source Constructions

C-factor Underground Wall Constructions

F-factor Ground Floor Constructions

Window Data File Constructions

Large Office Activity

Design Day Profiles

Summer

Winter

Run Period Profiles

Priority 1

Priority 2

Default

Large Office Bldg Equip

Large Office Bldg Light

Large Office Bldg Occ

Large Office ClgSetp

Large Office HtgSetp

Drag From Library

Schedule Name: Large Office Activity

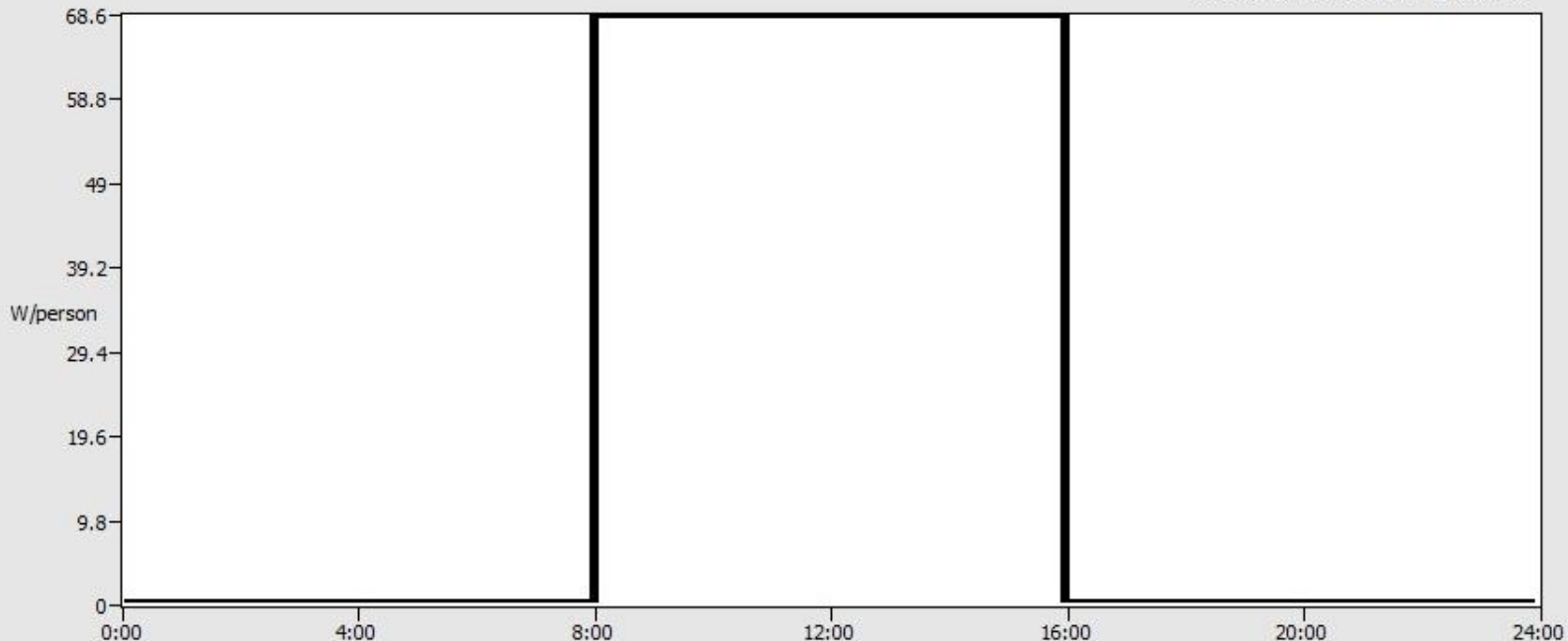
Schedule Type: ActivityLevel 5

Summer design day profile.

Lower Limit: 0.00

Upper Limit: 68.57

Mouse over horizontal line to set value



Hourly

15 Minutes

1 Minute

OS:Schedule:Day

Name

Large Office Activity Summer Design Day

Schedule Type Limits Name

ActivityLevel 5

Interpolate to Timestep

No

Hour

8

Minute

0

Value Until Time

0

Hour

16

Minute

0

Value Until Time

68.5726165771484

Hour

24

Large Office Activity

Design Day Profiles

Summer

Winter

Run Period Profiles

Priority 1

Priority 2

Default

Large Office Bldg Equip

Large Office Bldg Light

Large Office Bldg Occ

Large Office ClgSetp

Large Office HtgSetp

Drag From Library

Schedule Name: Large Office Activity

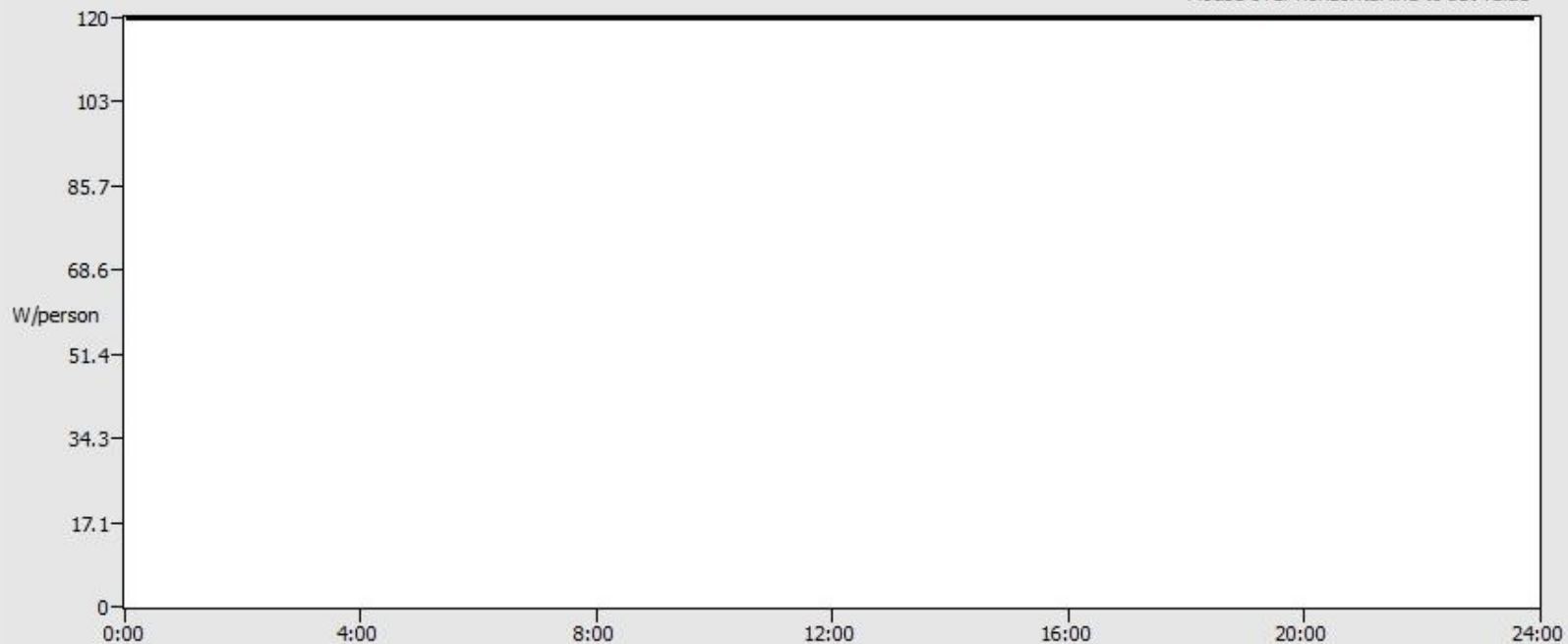
Schedule Type: ActivityLevel 5

Winter design day profile.

Lower Limit: 0.00

Upper Limit: 120.00

Mouse over horizontal line to set value



Hourly

15 Minutes

1 Minute

OS:Schedule:Day

Name

Large Office Activity Winter Design Day

Schedule Type Limits Name

ActivityLevel 5

Interpolate to Timestep

No

Hour

24

Minute

0

Value Until Time

120

Large Office Activity

Design Day Profiles

Summer

Winter

Run Period Profiles

Priority 1

Priority 2

Default

Large Office Bldg Equip

Large Office Bldg Light

Large Office Bldg Occ

Large Office ClgSetp

Large Office HtgSetp

Drag From Library

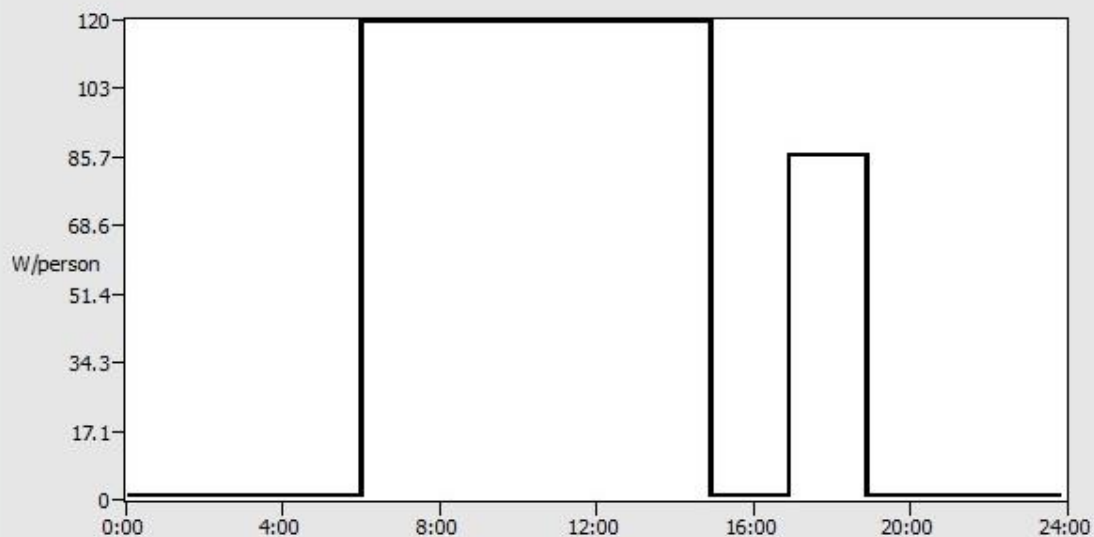
Schedule Name: Large Office Activity Schedule Type: ActivityLevel 5

Priority 1 Schedule Rule 2

Date Range: 01/01 12/31

Apply to: S M T W T F S

Lower Limit: 0.00 Upper Limit: 120.00



Hourly

15 Minutes

1 Minute



Jan						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Feb						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				

Mar						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Apr						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

OS:Schedule:Day

Name

Large Office Activity Default Schedule 4

Schedule Type Limits Name

ActivityLevel 5

Interpolate to Timestep

No

Hour

6

Minute

0

Value Until Time

0

Hour

15

Minute

0

Value Until Time

120

Hour

17

Large Office Activity

Design Day Profiles

Summer

Winter

Run Period Profiles

Priority 1

Priority 2

Default

Large Office Bldg Equip

Large Office Bldg Light

Large Office Bldg Occ

Large Office ClgSetp

Large Office HtgSetp

Drag From Library

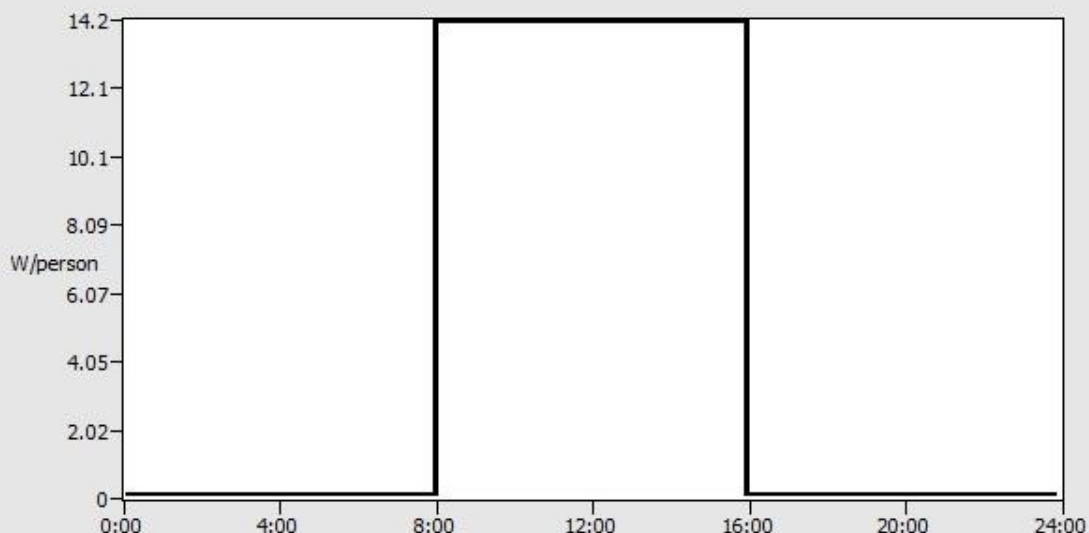
Schedule Name: Large Office Activity Schedule Type: ActivityLevel 5

Priority 2 Schedule Rule 1

Date Range: 01/01 12/31

Apply to: S M T W T F S

Lower Limit: 0.00 Upper Limit: 14.16



Hourly

15 Minutes

1 Minute

Jan						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Feb						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				

Mar						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Apr						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

OS:Schedule:Day

Name

Large Office Activity Default Schedule 2

Schedule Type Limits Name

ActivityLevel 5

Interpolate to Timestep

No

Hour

8

Minute

0

Value Until Time

0

Hour

16

Minute

0

Value Until Time

14.1567134857178

Hour

24