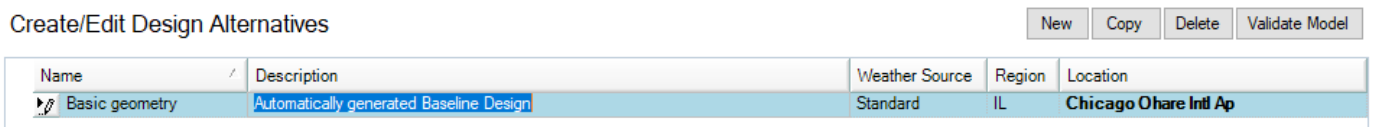
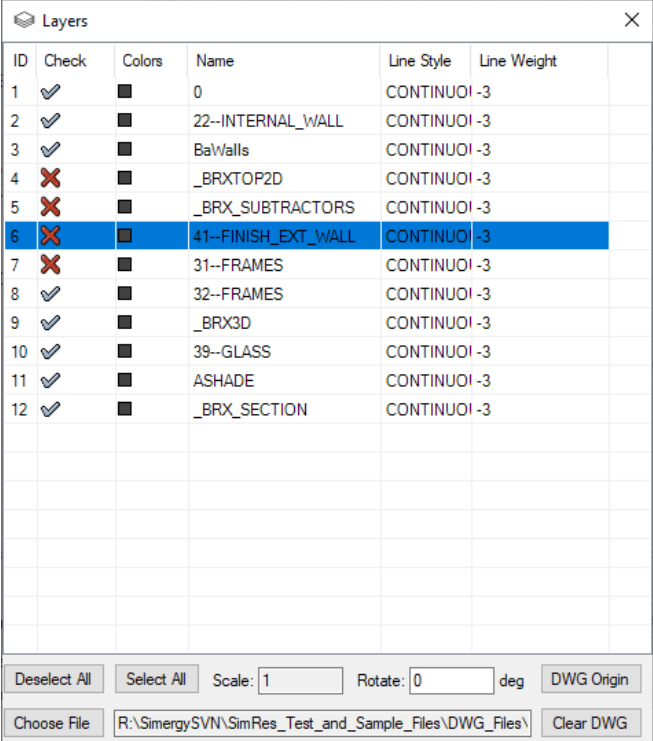


Lesson 1: Basic DWG model over with load calculations – Design Alternative

1	Click on the File Menu	
2	Click on the New Menu-Button to create a new project.	
3	In the Project workspace	
4	In the Project Information palette	
5	For Design Alternative 1 , set the Region dropdown to	"IL"
6	Set the Location dropdown to (or type in "Chicago" to filter the list) - This loads the weather data for the project.	"Chicago Ohare Intl Ap"
7	Rename the Design Alternative 1 to	"Basic geometry"
		
8	Go to the Buildings Workspace	
9	In the Create/Edit Buildings ribbon menu	
10	In the Create/Edit Building palette	
11	In the Building Stories tab	
12	Click on DWG Settings... (all the way in the lower right corner)	
13	Click on Choose File	
14	Browse for the "Simergy102-DWGModelOver.dwg"	
15	Click Ok	
16	Place the DWG on top of the origin (by a left click)	
		
17	Unselect unnecessary layers <ul style="list-style-type: none"> • _BRXTOP2D • 41—FINISH_EXT_WALL • 31—FRAMES You can close the Layer window now.	
18	Click the New Stories button	

19	Change Num of Stories to	1
20	Select the Shape dropdown as	"Freeform Shape"
21	Select the Occupied Configuration dropdown as	"One Zone Per Story"

Create/Edit Building

Buildings | Building Sections | **Building Stories** | Glazing | Roof

Building Section: Building Section A

Building Story Type: Office Building Story Type Space Type: Office (Typical) Space Typ

Base Story: 1 Num of Stories: 1

Shape Parameters **Origin**

Shape: FreeForm-shape X1: ft Y1: ft X: 50.00 ft

Plenum Configuration: No plenum X2: ft Y2: ft Y: 50.00 ft

Occupied Configuration: One Zone Per Floor X3: ft Y3: ft Z: 0.00 ft

Ceiling Configuration: Same as Occupied Rotation: 0.0 °

Floor Configuration: Same as Occupied

22	Click on the Glazing tab	
23	Change the Calculation Method dropdown to	Percentage
24	Set Target Win/Wall Ratio (for north and south) to	"40%"
25	Set Target Win/Wall Ratio (for east and west) to	"35%"
26	Set Window Top Elevation to	"10 ft"
27	Set Window Width to	"8 ft"
28	Set Window Offset From Left to	"1 ft"
29	Set Window Offset From Right to	"1 ft"

Arrays: One Window Array Calculation Method: Percentage

Array One Window Type: Default By Orientation Overhang Type: Overhang (1.5) Fin Type: Fin (1.5 ft)

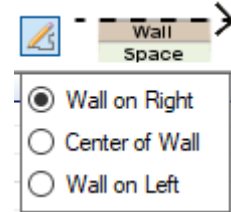
Window Orientation	Strip	Target Win/Wall Ratio	Win Top Elevation	Window Width	Window Height	Window Minimum Gap	Window Offset From Left	Window Offset From Right	Exterior Shading			
									Horiz.	Cont.	Fin L	Fin R
North	<input type="checkbox"/>	40%	10.00 ft	8.00 ft	NaN ft	2.00 ft	1.00 ft	1.00 ft	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
South	<input type="checkbox"/>	40%	10.00 ft	8.00 ft	NaN ft	2.00 ft	1.00 ft	1.00 ft	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
East	<input type="checkbox"/>	35%	10.00 ft	8.00 ft	NaN ft	2.00 ft	1.00 ft	1.00 ft	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
West	<input type="checkbox"/>	35%	10.00 ft	8.00 ft	NaN ft	2.00 ft	1.00 ft	1.00 ft	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

30 Zoom in and start drawing the exterior wall clockwise on the outside face.

Tip 1: On top of the drawing window you can change the reference line from left/right or center of the wall.

Tip 2: You can zoom in and out with your mouse wheel.

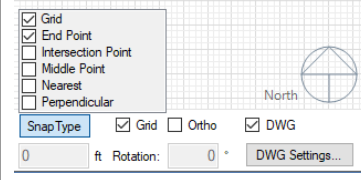
Tip 3: If you misplaced a point you can click Undo in the ribbon or type Ctrl-Z to undo the last point.



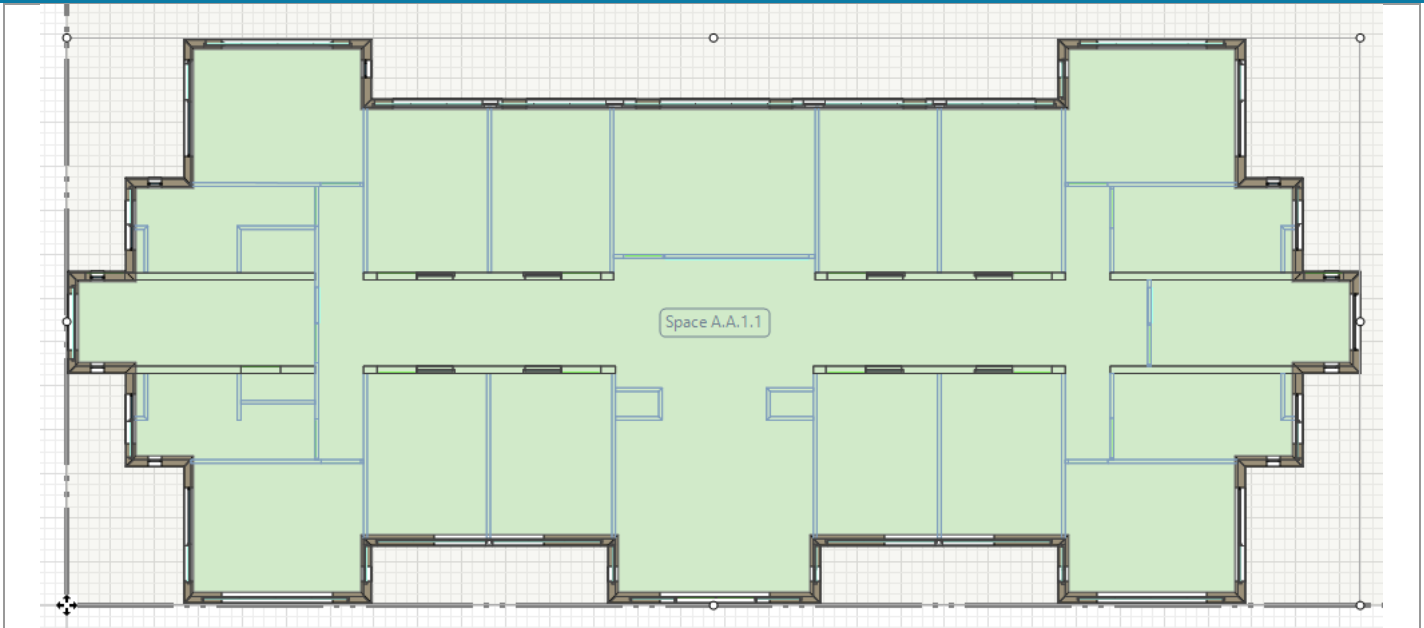
31 For this DWG each corner point will be automatically snapped to. You can adjust the Snap Type in the lower right of the drawing window in include more options like:

- Intersection Point
- Middle Point
- Nearest Point
- Perpendicular

There is also a checkbox to turn orthogonal mode on and off.



32	Click on Save Stories (your 2D window should look like this)	
----	---	--



33	You may have noticed that our wall construction does not have the same thickness as the DWG. We will correct this now:	
34	In the 2D window select a wall and right click properties.	
35	The thickness of the exterior wall in too thick. Let's adjust the external wall construction. Click on the ... button right next to the Construction Name property.	
36	The total thickness is 11.5 in, but we need 8 in.	
37	Set the thickness of the <i>FRAME-INSUL_MetalStudsInsulation_6"(152.4mm)</i> to	3 in
38	Set the thickness of the <i>AIRGAP_WallAirSpace_1"(25.4mm)</i> to	0.5 in
39	Click on Save –this Ref Only (this will make a copy of the material layer set and assign it to this wall only)	
40	Click on the Building tab	
41	Click on Edit Building Construction	
42	Select the just created in the Exterior Wall dropdown	"WALL-EXT_BrickAir6"MtlStudGyp for Wall A.1.2"
43	Click on Save Changes	
44	Click on Save (now the external walls align with the lines in the drawing) Tip 4: Create or adjust a Building Construction template and all relevant material properties before you create geometry of your model.	
45	Right click on the Story: Building Story A.A.1 node in the project tree and select Copy Building Story	
46	Set the Number of Building Stories to Insert to	2
47	And Click Copy	

Copy Insert Building Stories ✕

Building Story To Be Copied: Building Story (A.A.1)

Insert Above Building Story: Building Story (A.A.1) ▼

Number of Building Stories to Insert:

Copy
Cancel

48	Go to the Systems Workspace	
49	In the Systems Creator ribbon menu	
50	Select the Template Name dropdown as	<i>“Default Loads calculation”</i>
51	Set the radio button for Zone HVAC Groups to	<i>“One per building”</i>
52	Click on Generate Systems	

Template Name: Default Load Calculation ▼ Generate Systems Save as Template Delete Systems

Zone HVAC Group: Ideal ▼ One per building One per story One per zone

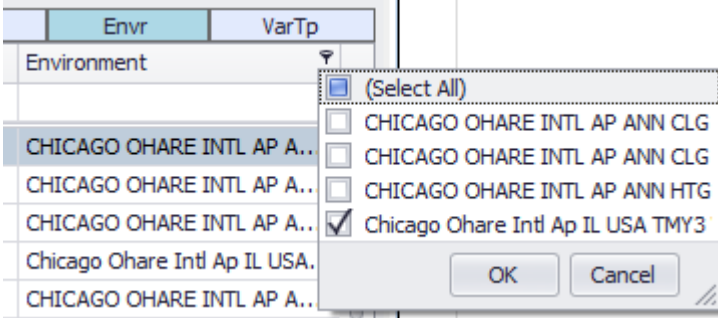
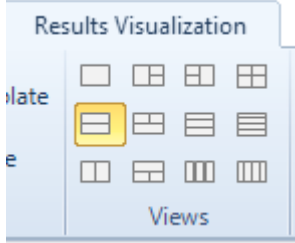
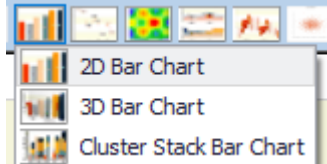

53	Go to the Simulate Workspace	
54	In the EnergyPlus ribbon menu	
55	In the lower left palette	
56	Click on New Configuration	
57	Select the Simulation Parameter template dropdown as <i>For the load calculations (sizing) we do not necessarily need the annual run, but since we want to compare results of annual runs later, we are selecting a full annual run here.</i>	<i>“Full 2020 with design days”</i>
58	Select the Request Set Parameter template dropdown as	<i>“System Variables – Detailed Set w/Zones + Meters”</i>

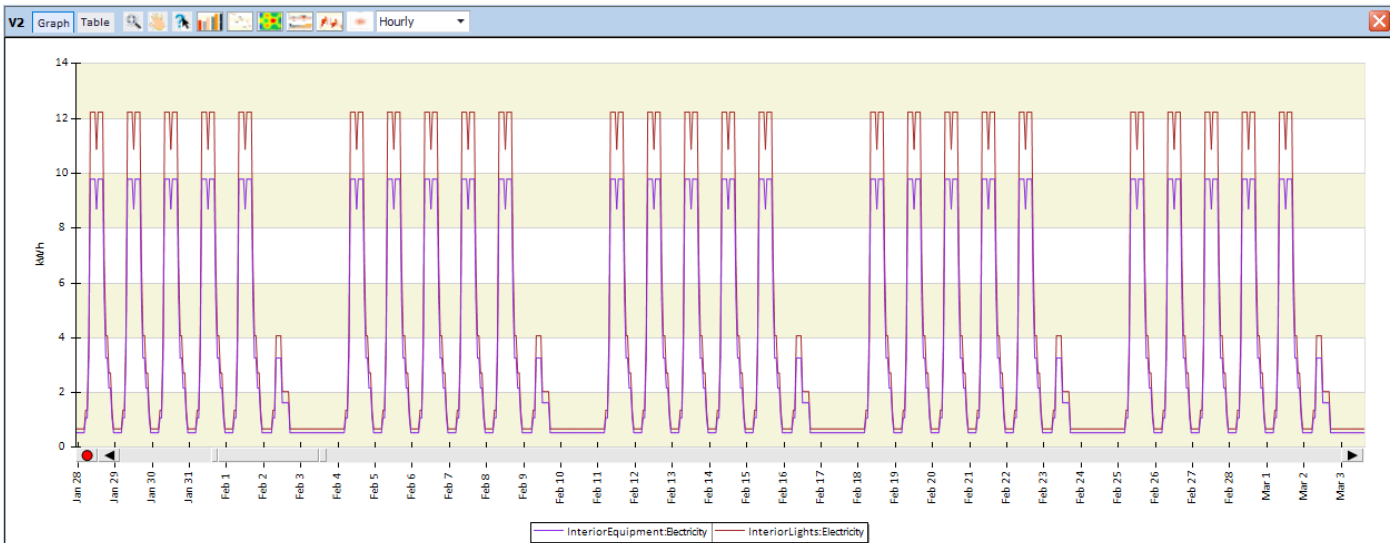
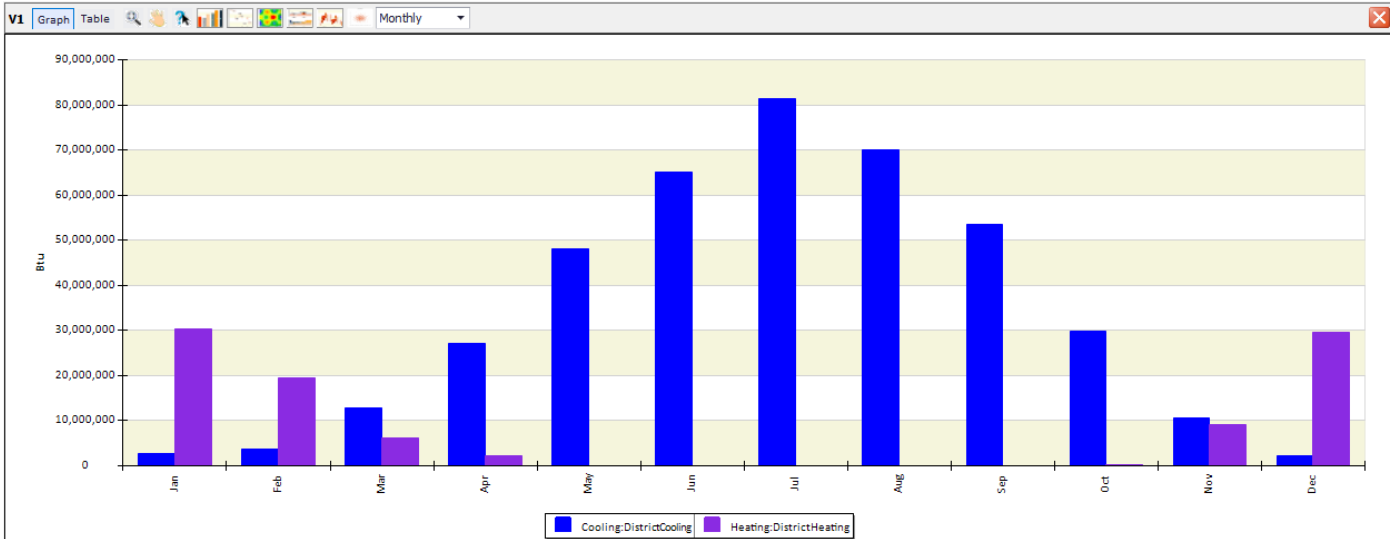
New Configuration		Edit Template	Edit Template
Delete Row			
Configuration	Date	Simulation Parameters	Output Request Set
Configuration 1	24-Feb-20	Full 2020 with design days	System Variables - Detailed Set w/ Zon... ✕

59	Click on the File Menu	
60	Click on the Save Button to save the current model.	
61	Set File name to	<i>“Simergy102-Lesson1”</i>
62	In the Simulate Workspace	
63	In the EnergyPlus ribbon menu	
64	In the lower right palette	
65	Click on Run Simulation – watch the progress bar and progress messages thereafter <i>(Step 1: Simulation preparation, Step 2: Simulation) The Simergy UI is disabled for a short period of time. After that the simulation and its preparation runs in the background and Simergy is enabled again.</i>	
66	Wait for simulation to finish and go to the Results Visualization workspace	

SimRun1	15-Aug-18	Simulation Warnings	Results ✕
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67	In the Results Visualization Workspace	
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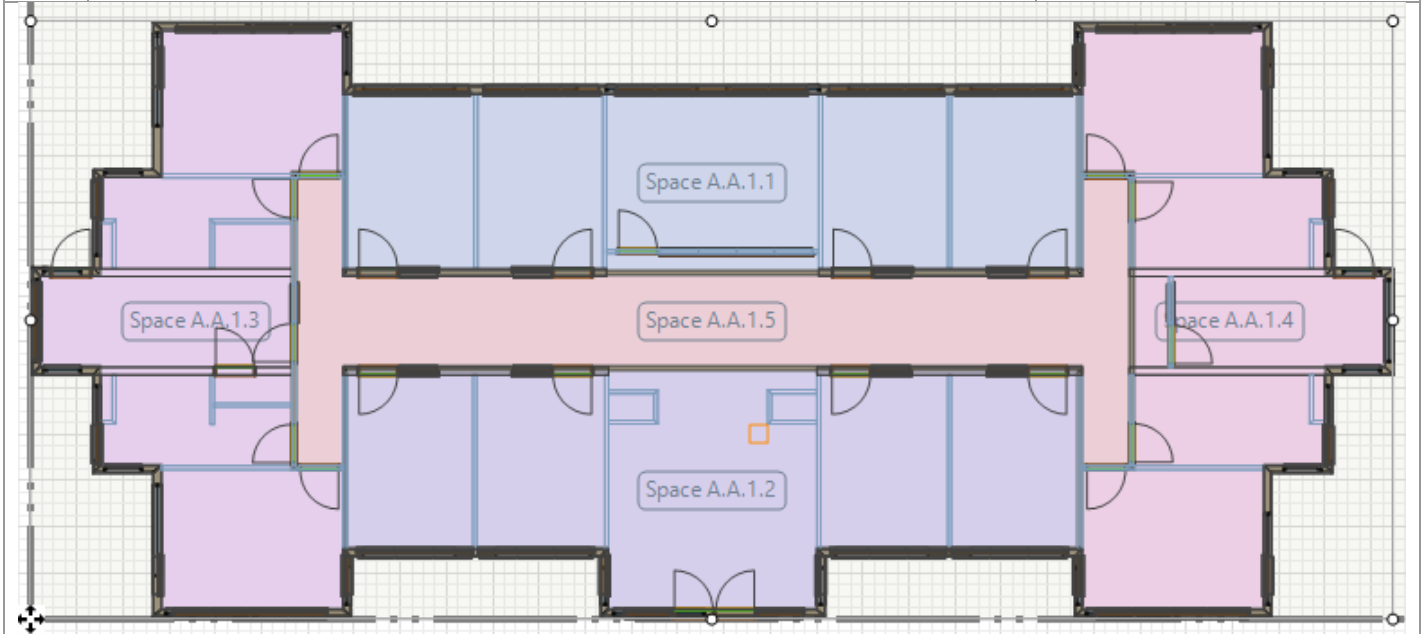
68	Click on the Envr Colum in the upper table, select the filter and choose the lowest checkbox for the annual simulation run results. Click on OK	
		
69	Click the button in the ribbon menu for two horizontally divided graphs.	
70	Multiselect cooling and heating and click in the ADD to Selection button	<i>Cooling:DistrictCooling</i> <i>Heating:DistrictHeating</i>
71	Change the Timeinterval from Hourly to	<i>Monthly</i>
72	Change the chart type to 2D Bar Chart	
73	Select <i>View V2</i> by clicking either clicking on the <i>V2</i> heading or by selecting <i>View 2</i> in the dropdown in the Output Variable Selection	
74	Multiselect interior equipment and lights electricity and click in the ADD to Selection button	<i>InteriorEquipment:Electricity</i> <i>InteriorLights:Electricity</i>
75	Click the Data Zoom button to look at about a week of data, so access the weekly patterns of the internal load schedules. Tip 5: You can click on the Zoom button again to view the full range, the control below the graph enables to move the zoom window along the time axis and well as changing its zoom level.	
76	Click on Save in the Results Screen ribbon section.	



Lesson 2: DESIGN ALTERNATE 1 – Simplified geometry

77	In the Project workspace	
78	In the Project Information palette	
79	Select the “Basic geometry” design alternative and click on the Copy button	
80	Rename the Design Alternative 1 to	<i>“Simplified geometry”</i>
81	Go to the Buildings Workspace	
82	In the Create/Edit Buildings ribbon menu	
83	In the Create/Edit Building palette	
84	In the Building Stories tab	
85	Select the Building Story A-2 and A-3 in the tree	
86	Right click and Delete	
87	Select the Building Story A-1 in the tree	
88	Select the Occupied Configuration dropdown as	<i>“Custom Zones”</i>
89	Click on Save Stories on the Create/Edit Building palette	
90	Go to the Interiors ribbon menu	
91	Click on the New Wall button.	

92	<p>Draw simplified interior walls as shown in the figure below, by selecting points in the DWG.</p> <p>Tip 6: Adjusting the reference line of the wall can make it easier to draw certain walls.</p> <p>Tip 7: After completing all walls of a space, seed the space right away so you can detect issues with walls not touching right away (and delete and redraw walls if needed).</p>	
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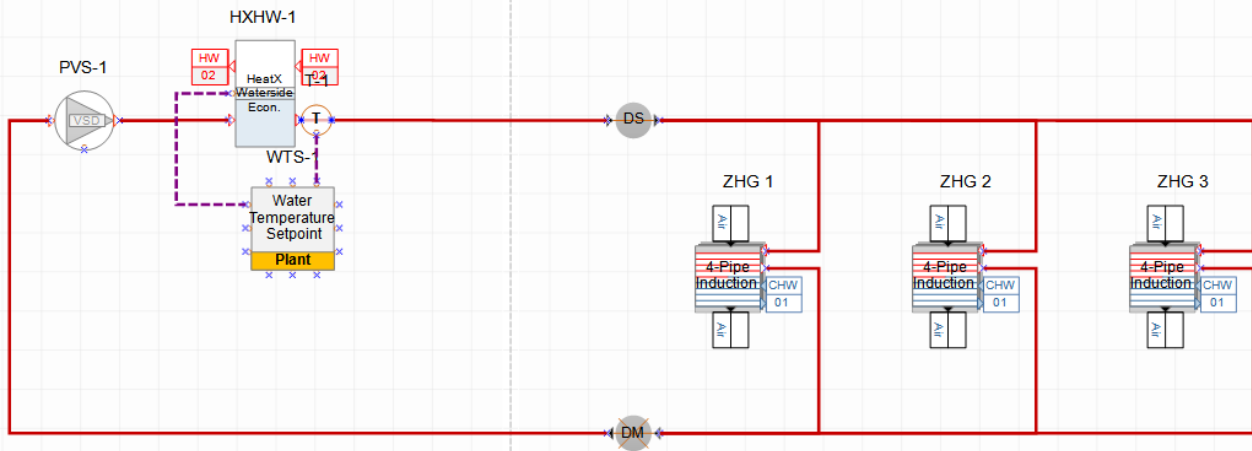
93	Go To Create/Edit Buildings	
94	Select Building Story A-2, right click and Copy	
95	Go to the Systems workspace	
96	Click on the Zone HVAC Groups tab	
97	Select the Zone HVAC Group 1 Notice that the zone assignment to this group was lost.	
98	Select all Thermal Zones in the project tree and drag and drop the onto the Zone HVAC Group - 1	
99	Go to the Simulate Workspace	
100	In the EnergyPlus ribbon menu	
101	In the lower right palette	
102	Click on Run Simulation	

Lesson 3: DESIGN ALTERNATE 2 – Active beam (water heating and cooling) with DOAS (gas heating and DX cooling)

103	In the Project workspace	
104	In the Project Information palette	
105	Select the "Basic geometry" design alternative and click on the Copy button	
106	Rename the Design Alternative 1 to	<i>"Active beam with DOAS"</i>
107	Go to the Systems Workspace	
108	In the Systems Creator ribbon menu	
109	Select the Template Name dropdown as	<i>"ChilledBeam wDOAS dxC gasH"</i>
110	Set the radio button for Zone HVAC Groups to	<i>"One per story"</i>

111	Set the radio button for Air Loops to	<i>“One per story”</i>																																	
112	Click on Generate Systems																																		
<div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 60%;"> <p style="color: red; font-weight: bold; font-size: small;">All existing systems will be replaced</p> <p>Template Name: ChilledBeam wDOAS dxC gasH Generate Systems Save as Template Delete Systems</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 30%;">Grouping</th> <th style="width: 40%;">Primary Templates</th> </tr> </thead> <tbody> <tr> <td>Zone HVAC Group:</td> <td>One Per Story</td> <td>AT 4PipeInduction_Active</td> </tr> <tr> <td>SHW Group:</td> <td>One Per Building</td> <td>None Selected</td> </tr> <tr> <td>Air loop:</td> <td>One Per Story</td> <td>DOAS_CAV_dxC_gasH_HR_BT</td> </tr> <tr> <td>VRF loop:</td> <td>One Per Project</td> <td>None Selected</td> </tr> <tr> <td>Hot water loop:</td> <td>One Per Project</td> <td>Boil(2)_HW_VSD(2)_Radiant</td> </tr> <tr> <td>Chilled water loop:</td> <td>One Per Project</td> <td>Chlr(2)_VC-Elec_VSD(2)_Radiant</td> </tr> <tr> <td>Mixed water loop:</td> <td>One Per Project</td> <td>None Selected</td> </tr> <tr> <td>SHW Loop:</td> <td>One Per Project</td> <td>None Selected</td> </tr> <tr> <td>Condenser loop:</td> <td>One Per Project</td> <td>CoolTwr(2)_2SP_VSD</td> </tr> <tr> <td>Steam loop:</td> <td>One Per Project</td> <td>None Selected</td> </tr> </tbody> </table> </div> <div style="width: 35%; text-align: center;"> </div> </div>				Grouping	Primary Templates	Zone HVAC Group:	One Per Story	AT 4PipeInduction_Active	SHW Group:	One Per Building	None Selected	Air loop:	One Per Story	DOAS_CAV_dxC_gasH_HR_BT	VRF loop:	One Per Project	None Selected	Hot water loop:	One Per Project	Boil(2)_HW_VSD(2)_Radiant	Chilled water loop:	One Per Project	Chlr(2)_VC-Elec_VSD(2)_Radiant	Mixed water loop:	One Per Project	None Selected	SHW Loop:	One Per Project	None Selected	Condenser loop:	One Per Project	CoolTwr(2)_2SP_VSD	Steam loop:	One Per Project	None Selected
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Condenser loop:	One Per Project	CoolTwr(2)_2SP_VSD																																	
Steam loop:	One Per Project	None Selected																																	
113	Go to the Systems Workspace																																		
114	Go to the Air Loops ribbon menu within Create/Edit Building Systems																																		
115	Select the sizing object by clicking the ... button in the Loop Properties Sizing property																																		
116	Set the Type of Load to Size On to	<i>Sensible</i>																																	
117	Click On Save																																		
118	Click on the File Menu																																		
119	Click on the SaveAs Button to save the current model.																																		
120	Set File name to	<i>“Simergy102-Lesson3”</i>																																	
121	Go to the Simulate Workspace																																		
122	In the EnergyPlus ribbon menu																																		
123	In the lower right palette																																		
124	Click on Run Simulation																																		
Lesson 4: DESIGN ALTERNATE 3 – Active chilled beam (water heating and cooling) with DOAS (water heating and cooling)																																			
125	In the Project workspace																																		
126	In the Project Information palette																																		
127	Select the <i>“Active beam with DOAS”</i> design alternative and click on copy																																		
128	Rename the Design Alternative 1 to	<i>“Active beam with DOAS water”</i>																																	
129	Go to the Systems Workspace																																		
130	Go to the Air Loops ribbon menu within Create/Edit Building Systems																																		
131	Select the DX cooling coil and click the Delete key																																		
132	Confirm the deletion by selecting Yes																																		
133	Drag and drop the <i>“Cooling Coil 2-Port”</i> at the same place in the diagram																																		
134	Select the following library entry and click on Save	<i>“CoolingCoilWaterAutosize”</i>																																	
135	In the CHW Loop Dropdown select	<i>“—Create new Loop--”</i>																																	
136	Select the gas heating coil, right click and select Delete from the right click menu options																																		

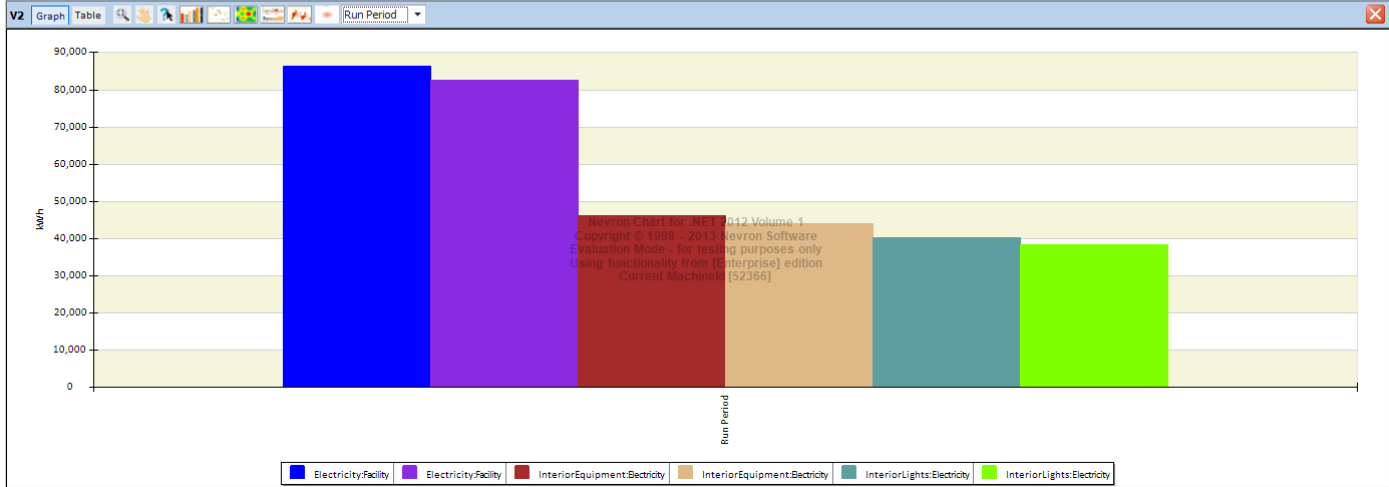
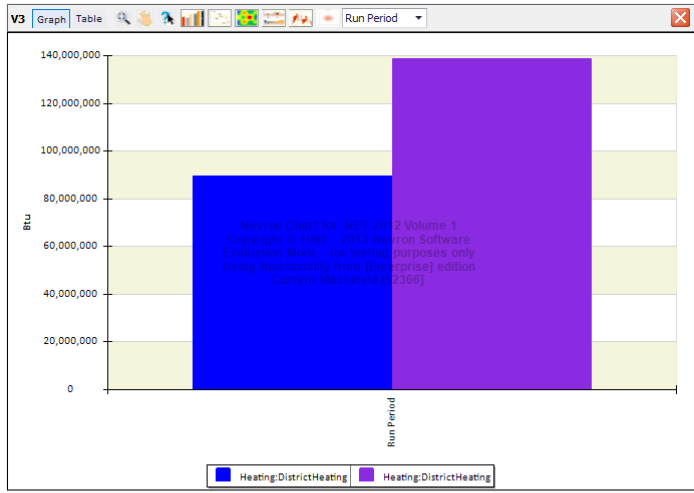
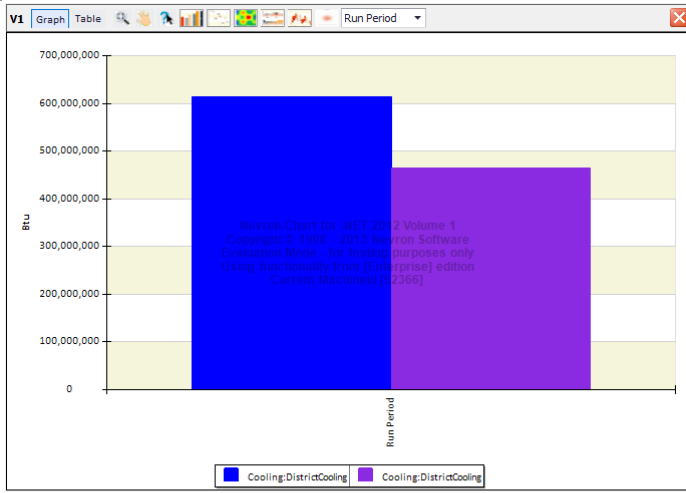
137	Confirm the deletion by selecting Yes	
138	Drag and drop the “Heating Coil 2-Port” at the same place in the diagram	
139	Select the following library entry and click on Save	<i>“HeatingCoilWaterAutosize”</i>
140	In the HW Loop Dropdown select	<i>“—Create new Loop--”</i>
141	Reconnect the connectors to both coils and check the loop consistency by clicking the Validate button	
142	Click on the Save as Template button in the controls just above the diagram	
143	In the popup window, set the name of the template to	<i>“DOAS Loop with water heating and cooling”</i>
144	Click Ok on the Template saved successfully popup dialog	
145	Select Manage Systems in the lower left palette and click on	<i>“Air Loop 2”</i>
146	In the Air Loop Template dropdown select the just created template	<i>“DOAS Loop with water heating and cooling”</i>
147	In the diagram, select the cooling coil and select the following CHW Loop in the dropdown	<i>“CHW Loop 2”</i>
148	In the diagram, select the heating coil and select the following HW Loop in the dropdown	<i>“HW Loop 2”</i>
149	Select Manage Systems in the lower left palette and click on	<i>“Air Loop 3”</i>
150	In the Air Loop Template dropdown select the just created template	<i>“DOAS Loop with water heating and cooling”</i>
151	In the diagram, select the cooling coil and select the following CHW Loop in the dropdown	<i>“CHW Loop 2”</i>
152	In the diagram, select the heating coil and select the following HW Loop in the dropdown	<i>“HW Loop 2”</i>
153	Go to the Water Loops ribbon menu within Create/Edit Building Systems	
154	In the lower left palette click on	<i>“CHW Loop 2”</i>
155	In the Water Loop Template dropdown select the template	<i>“Chr(2)_VC-Elec_VSD”</i>
156	Select both chiller and assign them to the following loop in the CW Loop dropdown	<i>“CW Loop 1”</i>
157	Select Manage Systems in the lower left palette and click on	<i>“HW Loop 2”</i>
158	In the Water Loop Template dropdown select the template	<i>“Boil(2)_HW_VSD”</i>
159	Select Manage Systems in the lower left palette and click on	<i>“HW Loop 1”</i>
160	From the Water Loop Template dropdown select	<i>“< Empty System >”</i>
161	Drag and drop the following shape onto the diagram	<i>“Heat Exchanger HWtoHW”</i>
162	Set the required bolded properties to	<i>“autosize”</i>
163	Select the following loop in the HW Loop dropdown	<i>“HW Loop 2”</i>
164	Drag and drop the following shape onto the diagram left of the heat exchanger	<i>“Pump VSD LtR HW”</i>
165	Select the following library entry	<i>“Pump-HW-VSD_COMNET”</i>
166	Drag and drop the following shape onto the diagram over the pump	<i>“Water Temperature Setpoint”</i>
167	Select the following library entry	<i>“Setpoint Controller - 100F - HW – Radiant”</i>
168	Drag and drop the following shape onto the diagram and dock it to the right outlet of the heat exchanger	<i>“T Sensor”</i>
169	Create the proper connections for hot water and controls	



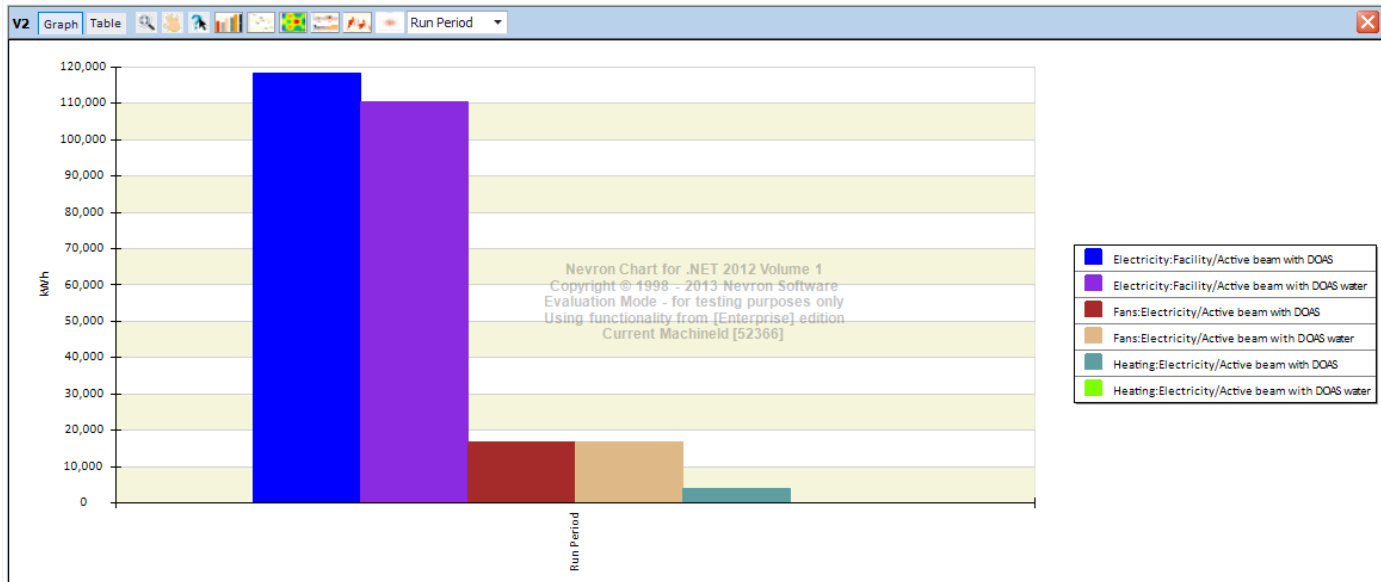
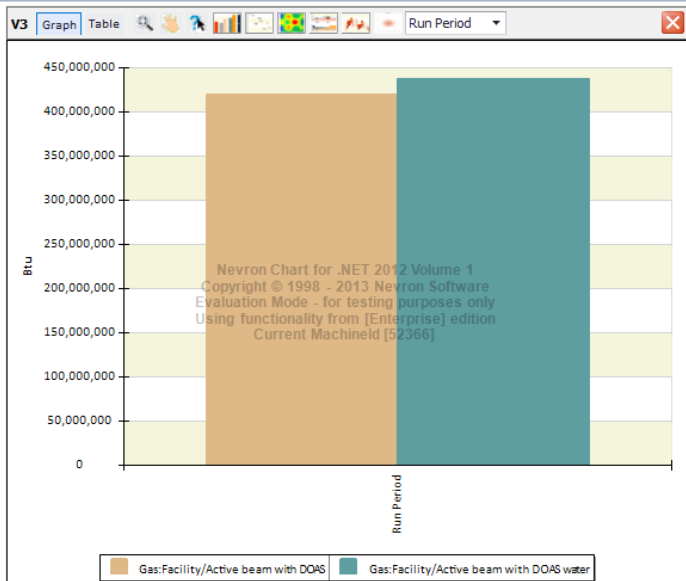
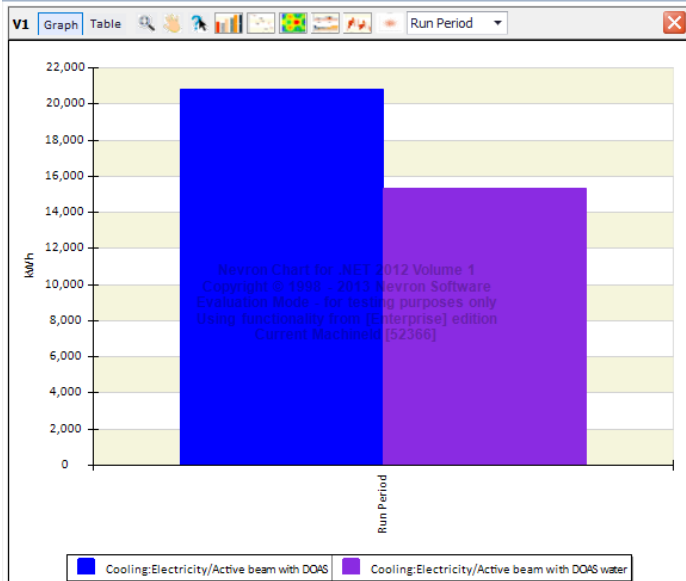
170	Click on the File Menu	
171	Click on the SaveAs Button to save the current model.	
172	Set File name to	<i>"Simergy102-Lesson4"</i>
173	Go to the Simulate Workspace	
174	In the EnergyPlus ribbon menu	
175	In the lower right palette	
176	Click on Run Simulation	

Lesson 5: Results Visualization

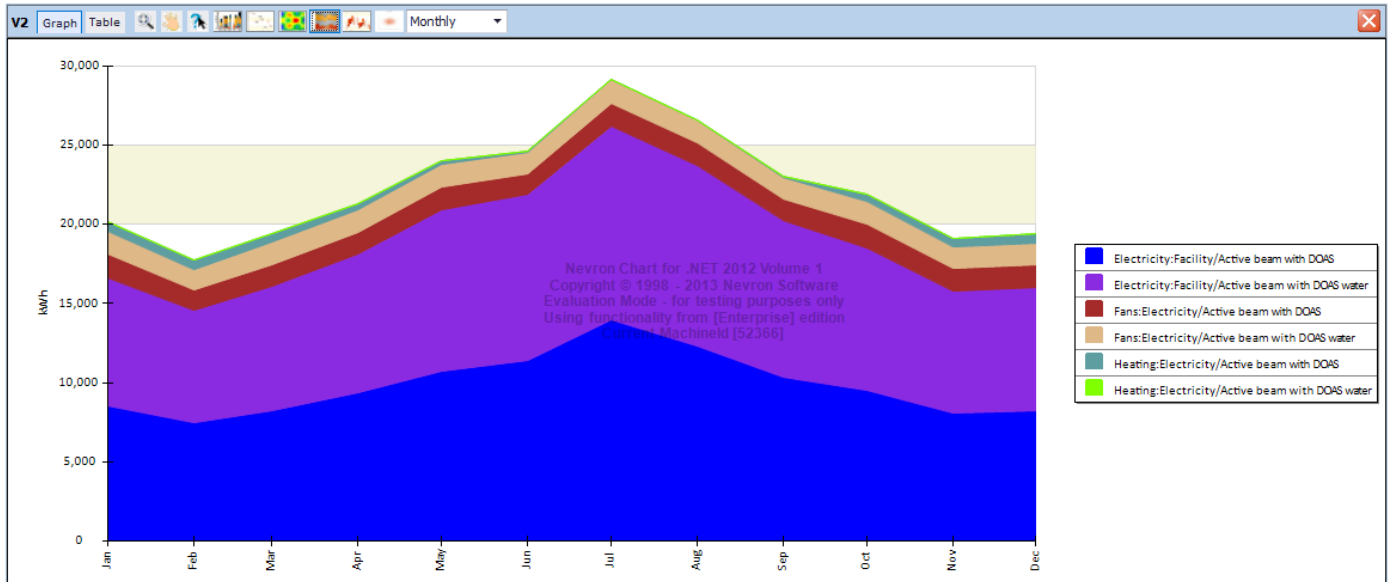
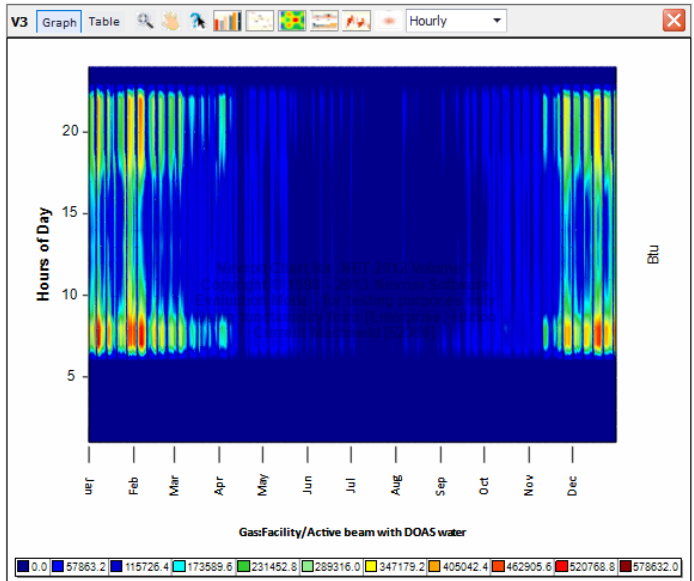
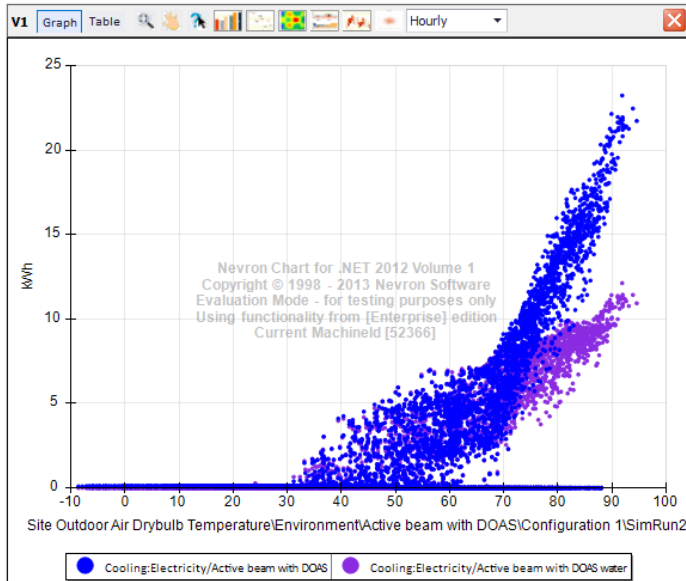
177	Go To Results Visualization workspace	
178	Press the button New from Scratch	
179	Filter the Environment column to include only annual runs	
180	Filter the Alternative column for "Basic and Detailed geometry"	
181	Select the view with 3 graphs, 2 on top and one below	
182	Add the following variables of both alternatives to View 1	<i>"Cooling:DistrictCooling"</i>
183	Add the following variables of both alternatives to View 3	<i>"Heating:DistrictHeating"</i>
184	Add the following variables of both alternatives to View 2	<i>"Electricity:Facility"</i> <i>"InteriorEquipment:Electricity"</i> <i>"InteriorLights:Electricity"</i>
185	Set all three time intervals to run period to enable better comparison of the overall results	
186	Right click into the graphs and click the checkbox "alternative Names" in the Name Composition area for all graphs	
187	For the lower graph you can also move the legend to the right	
188	The decrease in electricity is coming from the additional wall volume that is subtracted from the spaces/zone volumes.	



189	Click on Save in the Results Screen Ribbon menu	
190	Click on Copy in the Results Screen Ribbon menu	
191	Now change the alternative filter to the two active beam alternatives (DOAS)	
192	Add the following variables of both alternatives to View 1	<i>“Cooling:Electricity”</i>
193	Add the following variables of both alternatives to View 3	<i>“Gas:Facility”</i>
194	Add the following variables of both alternatives to View 2	<i>“Electricity:Facility”</i> <i>“Fans:Electricity”</i> <i>“Heating:Electricity”</i>
195	Right click in View 2 and set the legend to the right.	



196	Click on Save in the Results Screen Ribbon menu	
197	Click on Copy in the Results Screen Ribbon menu	
198	Change the chart type to Scatter Chart of View 1	
199	Change the time interval in View 1 to hourly	
200	Select one of the variables in View 3 and Delete it	
201	Change the chart type to Surface Chart plot of View 3	
202	Change the time interval in View 3 to hourly	
203	Change the chart type to Stacked Area Chart plot of View 2	
204	Change the time interval in View 2 to Monthly	



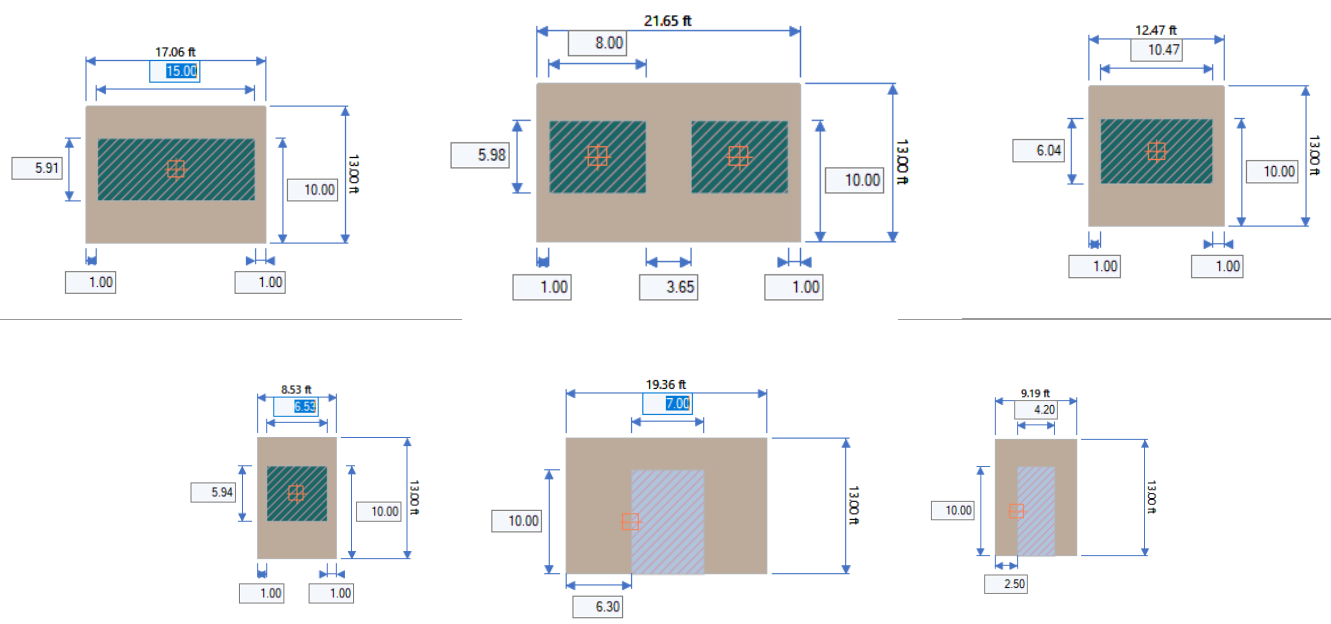
Lesson 6: DESIGN ALTERNATE 1 – Really detailed geometry

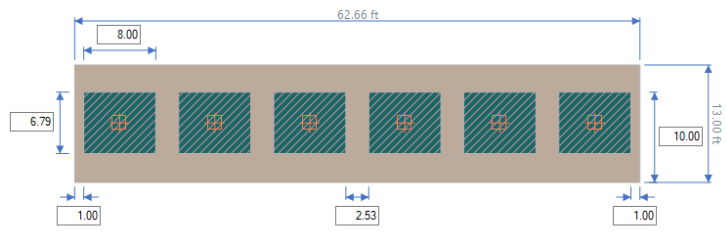
205	In the Project workspace	
206	In the Project Information palette	
207	Select the <i>“Basic geometry”</i> design alternative and click on the Copy button	
208	Rename the Design Alternative 1 to	<i>“Detailed geometry”</i>
209	Go to the Buildings Workspace	
210	In the Create/Edit Buildings ribbon menu	
211	In the Create/Edit Building palette	
212	In the Building Stories tab	
213	Select the Building Story A-2 and A-3 in the tree	
214	Right click and Delete	
215	Select the Building Story A-1 in the tree	
216	Select the Occupied Configuration dropdown as	<i>“Custom Zones”</i>
217	Click on Save Stories on the Create/Edit Building palette	
218	Go to the Interiors ribbon menu	

219	Click on the New Wall button.	
220	Draw the interior walls, by selecting points in the DWG. Tip 6: Adjusting the reference line of the wall can make it easier to draw certain walls.	
221	After you completed drawing all the walls, click on Seed Spaces and click in each space to automatically draw it. Your result should look like this:	

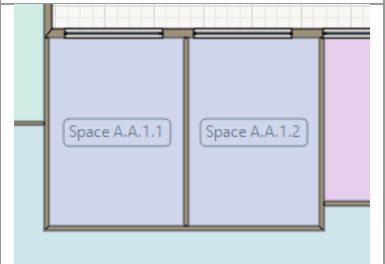


222	Click on the File Menu	
223	Click on the Save Button to save the current model.	
224	Set File name to	<i>"Simergy102-Lesson2"</i>
225	Go To Custom Openings	
226	Select the short walls in east and west direction and delete the windows	
	Select all other walls one by one and correct the window placements according to the following screenshots	

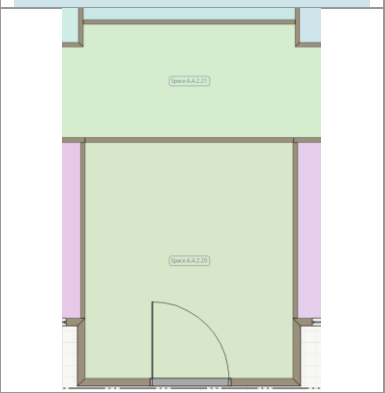




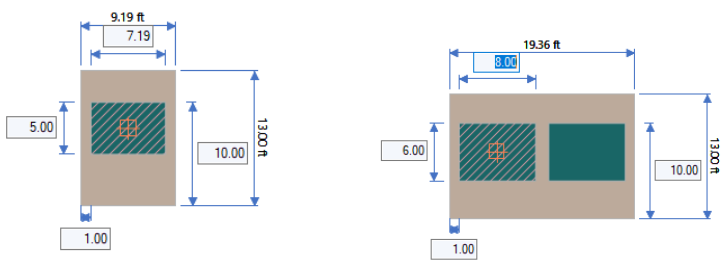
- 227 [Go to Create/Edit Zones](#)
- 228 Select Thermal Zone A-1-2
- 229 Drag and drop the neighboring space from the 2D window into the same zone
- 230 Delete the empty zone
- 231 Do the same for all four neighboring 2 space groups



- 232 [Go To Create/Edit Buildings](#)
- 233 Copy building story A-1 by selecting it in the tree and right click **Copy**
- 234 Select building Story A-2 in the tree
- 235 Delete the corridor space here Space A-1-21
- 236 Draw a wall to separate the office space from the corridor on the second floor.



- 237 Seed the two new spaces
- 238 [Custom Openings](#)
- 239 Delete the three doors on the second floor and add windows instead



- 240 [Go To Create/Edit Buildings](#)
- 241 Select Building Story A-2, right click and Copy
- 242 [Go To Zone Grouping](#)
- 243 Ensure that all thermal zones are part of the office Zone Group
- 244 [Go To Systems Workspace](#)
- 245 [In the Systems Creator](#)
- 246 In the template dropdown select "Default Load Calculation"
- 247 Click on **Generate Systems**
- 248 [Click on the File Menu](#)
- 249 Click on the **SaveAs** Button to save the current model.
- 250 Set **File name** to "Simergy102-Lesson2"

251	Go to the Simulate Workspace	
252	In the EnergyPlus ribbon menu	
253	In the lower right palette	
254	Click on Run Simulation	