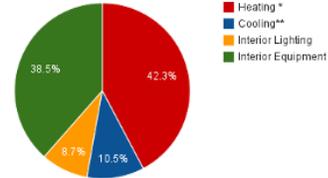


Annual Building Utility Performance Graphing - Restaurant-NewEquip

Instructions: 1. To edit this, chose "Make a Copy" from the file menu. This will copy the spreadsheet to your personal Google Documents Account
 2. Paste data in from your Annual Building Utility Performance Summary into the two colored blocks below

Baseline Model	Baseline Full Service Restaurant (post 1980), Boulder (5b)					
Building Area (m2)	530.36 <small>Get this value from "Building Area" table</small>					
End Uses	Electricity [GJ]	Natural Gas [GJ]	Other Fuel [GJ]	District Cooling [GJ]	District Heating [GJ]	Water [m3]
Heating	0	0	0	0	1146.32	0
Cooling	0	0	0	1070.31	0	0
Interior Lighting	294.38	0	0	0	0	0
Exterior Lighting	0	0	0	0	0	0
Interior Equipment	559.86	745.33	0	0	0	0
Exterior Equipment	0	0	0	0	0	0
Fans	0	0	0	0	0	0
Pumps	0	0	0	0	0	0
Heat Rejection	0	0	0	0	0	0
Humidification	0	0	0	0	0	0
Heat Recovery	0	0	0	0	0	0
Water Systems	0	0	0	0	0	0
Refrigeration	0	0	0	0	0	0
Generators	0	0	0	0	0	0
Total End Uses	854.24	745.33	0	1070.31	1146.32	0

Baseline End Use Breakdown



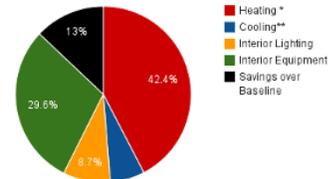
Proposed EUI Savings (Kbtu/ft2)



Total EUI Savings (Kbtu/ft2): 72.9

Proposed Model	New Kitchen Equipment (2009 Low Energy Case)					
Building Area (m2)	530.36 <small>Get this value from "Building Area" table</small>					
End Uses	Electricity [GJ]	Natural Gas [GJ]	Other Fuel [GJ]	District Cooling [GJ]	District Heating [GJ]	Water [m3]
Heating	0	0	0	0	1148.6	0
Cooling	0	0	0	646.75	0	0
Interior Lighting	294.38	0	0	0	0	0
Exterior Lighting	0	0	0	0	0	0
Interior Equipment	460	544.56	0	0	0	0
Exterior Equipment	0	0	0	0	0	0
Fans	0	0	0	0	0	0
Pumps	0	0	0	0	0	0
Heat Rejection	0	0	0	0	0	0
Humidification	0	0	0	0	0	0
Heat Recovery	0	0	0	0	0	0
Water Systems	0	0	0	0	0	0
Refrigeration	0	0	0	0	0	0
Generators	0	0	0	0	0	0
Total End Uses	754.39	544.56	0	646.75	1148.6	0

Proposed End Use Breakdown



Global Coefficient of Performance values applied to end use charts and tables (except for raw data above)

	COP
Heating	0.80**
Cooling	3.00**

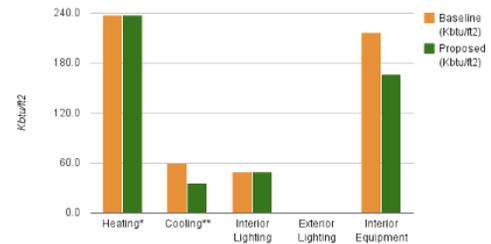
Energy Use Comparison (GJ)

	Baseline (GJ)	Proposed (GJ)	Savings (GJ)	Proposed Savings
Heating*	1,432.90	1,435.75	-2.85	-0.20%
Cooling**	356.77	215.58	141.19	39.57%
Interior Lighting	294.38	294.38	0.00	0.00%
Exterior Lighting	0.00	0.00	0.00	0.00%
Interior Equipment	1,305.19	1,004.56	300.63	23.03%
Exterior Equipment	0.00	0.00	0.00	0.00%
Fans	0.00	0.00	0.00	0.00%
Pumps	0.00	0.00	0.00	0.00%
Heat Rejection	0.00	0.00	0.00	0.00%
Humidification	0.00	0.00	0.00	0.00%
Heat Recovery	0.00	0.00	0.00	0.00%
Water Systems	0.00	0.00	0.00	0.00%
Refrigeration	0.00	0.00	0.00	0.00%
Generators	0.00	0.00	0.00	0.00%
Total End Uses	3,389.24	2,950.27	438.97	12.95%

Energy Use Intensity (EUI) - Total



Energy Use Intensity (EUI) - Use Type Breakdown



Energy Use Intensity (EUI)

	Baseline (MJ/m2)	Proposed (MJ/m2)
Heating*	2,701.7	2,707.1
Cooling**	672.7	406.5
Interior Lighting	555.1	555.1
Exterior Lighting	0.0	0.0
Interior Equipment	2,461.0	1,894.1
Exterior Equipment	0.0	0.0
Fans	0.0	0.0
Pumps	0.0	0.0
Heat Rejection	0.0	0.0
Humidification	0.0	0.0
Heat Recovery	0.0	0.0
Water Systems	0.0	0.0
Refrigeration	0.0	0.0
Generators	0.0	0.0
Total End Uses	6,390.5	5,562.8

Energy Use Intensity (EUI)

	Baseline (Kbtu/ft2)	Proposed (Kbtu/ft2)	Proposed EUI Savings (Kbtu/ft2)
Heating*	237.9	238.4	-0.5
Cooling**	59.2	35.8	23.4
Interior Lighting	48.9	48.9	0.0
Exterior Lighting	0.0	0.0	0.0
Interior Equipment	216.7	166.8	49.9
Exterior Equipment	0.0	0.0	0.0
Fans	0.0	0.0	0.0
Pumps	0.0	0.0	0.0
Heat Rejection	0.0	0.0	0.0
Humidification	0.0	0.0	0.0
Heat Recovery	0.0	0.0	0.0
Water Systems	0.0	0.0	0.0
Refrigeration	0.0	0.0	0.0
Generators	0.0	0.0	0.0
Total End Uses	562.7	489.8	72.9

area (m2) 530.36 530.36

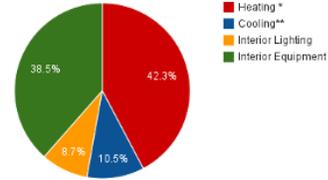
area (ft2) 5,709 5,709

Annual Building Utility Performance Graphing - Restaurant-NewWindows

Instructions: Paste data in from your Annual Building Utility Performance Summary into the two colored blocks below

Baseline Model Baseline Full Service Restaurant (post 1980), Boulder (5b)							
Building Area (m2)	530.36 <small>Get this value from "Building Area" table</small>						
End Uses							
	Electricity [GJ]	Natural Gas [GJ]	Other Fuel [GJ]	District Cooling [GJ]	District Heating [GJ]	Water [m3]	
Heating	0	0	0	0	1146.32	0	0
Cooling	0	0	0	1070.33	0	0	0
Interior Lighting	294.38	0	0	0	0	0	0
Exterior Lighting	0	0	0	0	0	0	0
Interior Equipment	559.86	745.33	0	0	0	0	0
Exterior Equipment	0	0	0	0	0	0	0
Fans	0	0	0	0	0	0	0
Pumps	0	0	0	0	0	0	0
Heat Rejection	0	0	0	0	0	0	0
Humidification	0	0	0	0	0	0	0
Heat Recovery	0	0	0	0	0	0	0
Water Systems	0	0	0	0	0	0	0
Refrigeration	0	0	0	0	0	0	0
Generators	0	0	0	0	0	0	0
Total End Uses	854.24	745.33	0	1070.33	1146.32	0	0

Baseline End Use Breakdown



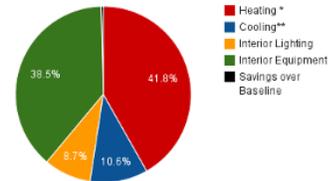
Proposed EUI Savings (Kbtu/ft2)



Total EUI Savings (Kbtu/ft2): 2.3

Proposed Model New Windows (2009 Low Energy Case)							
Building Area (m2)	530.36 <small>Get this value from "Building Area" table</small>						
End Uses							
	Electricity [GJ]	Natural Gas [GJ]	Other Fuel [GJ]	District Cooling [GJ]	District Heating [GJ]	Water [m3]	
Heating	0	0	0	0	1133.31	0	0
Cooling	0	0	0	1078.32	0	0	0
Interior Lighting	294.38	0	0	0	0	0	0
Exterior Lighting	0	0	0	0	0	0	0
Interior Equipment	559.86	745.33	0	0	0	0	0
Exterior Equipment	0	0	0	0	0	0	0
Fans	0	0	0	0	0	0	0
Pumps	0	0	0	0	0	0	0
Heat Rejection	0	0	0	0	0	0	0
Humidification	0	0	0	0	0	0	0
Heat Recovery	0	0	0	0	0	0	0
Water Systems	0	0	0	0	0	0	0
Refrigeration	0	0	0	0	0	0	0
Generators	0	0	0	0	0	0	0
Total End Uses	854.24	745.33	0	1078.32	1133.31	0	0

Proposed End Use Breakdown



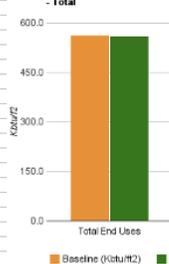
Global Coefficient of Performance values applied to end use charts and tables (except for raw data above)

	COP
Heating	0.80*
Cooling	3.00**

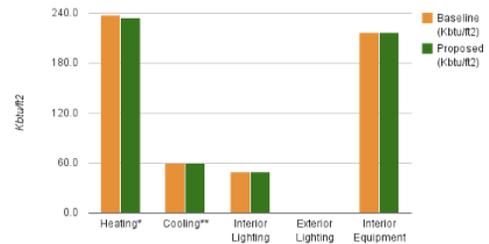
Energy Use Comparison (GJ)

	Baseline (GJ)	Proposed (GJ)	Savings (GJ)	Proposed Savings
Heating*	1,432.90	1,416.64	16.26	1.13%
Cooling**	356.78	359.44	-2.66	-0.75%
Interior Lighting	294.38	294.38	0.00	0.00%
Exterior Lighting	0.00	0.00	0.00	0.00%
Interior Equipment	1,305.19	1,305.19	0.00	0.00%
Exterior Equipment	0.00	0.00	0.00	0.00%
Fans	0.00	0.00	0.00	0.00%
Pumps	0.00	0.00	0.00	0.00%
Heat Rejection	0.00	0.00	0.00	0.00%
Humidification	0.00	0.00	0.00	0.00%
Heat Recovery	0.00	0.00	0.00	0.00%
Water Systems	0.00	0.00	0.00	0.00%
Refrigeration	0.00	0.00	0.00	0.00%
Generators	0.00	0.00	0.00	0.00%
Total End Uses	3,389.25	3,375.65	13.60	0.40%

Energy Use Intensity (EUI) - Total



Energy Use Intensity (EUI) - Use Type Breakdown



Energy Use Intensity (EUI)

	Baseline (MJ/m2)	Proposed (MJ/m2)
Heating*	2,701.7	2,671.1
Cooling**	672.7	677.7
Interior Lighting	555.1	555.1
Exterior Lighting	0.0	0.0
Interior Equipment	2,461.0	2,461.0
Exterior Equipment	0.0	0.0
Fans	0.0	0.0
Pumps	0.0	0.0
Heat Rejection	0.0	0.0
Humidification	0.0	0.0
Heat Recovery	0.0	0.0
Water Systems	0.0	0.0
Refrigeration	0.0	0.0
Generators	0.0	0.0
Total End Uses	6,390.5	6,364.8

Energy Use Intensity (EUI)

	Baseline (Kbtu/ft2)	Proposed (Kbtu/ft2)	Proposed EUI Savings (Kbtu/ft2)
Heating*	237.9	235.2	2.7
Cooling**	59.2	59.7	-0.4
Interior Lighting	48.9	48.9	0.0
Exterior Lighting	0.0	0.0	0.0
Interior Equipment	216.7	216.7	0.0
Exterior Equipment	0.0	0.0	0.0
Fans	0.0	0.0	0.0
Pumps	0.0	0.0	0.0
Heat Rejection	0.0	0.0	0.0
Humidification	0.0	0.0	0.0
Heat Recovery	0.0	0.0	0.0
Water Systems	0.0	0.0	0.0
Refrigeration	0.0	0.0	0.0
Generators	0.0	0.0	0.0
Total End Uses	562.7	560.4	2.3

area (m2) 530.36 530.36

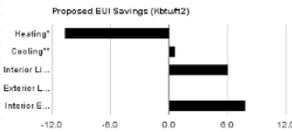
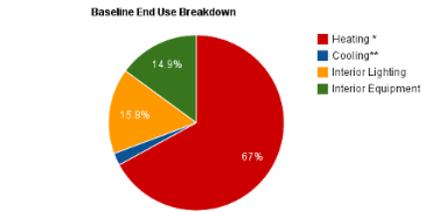
area (ft2) 5,709 5,709

Annual Building Utility Performance Graphing - Office-NewLights&Equip

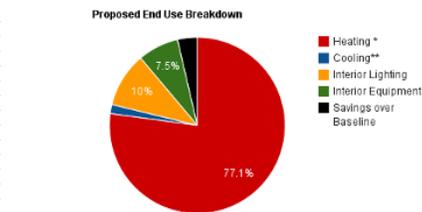
Instructions: Paste data in from your Annual Building Utility Performance Summary into the two colored blocks below

Baseline Model Baseline Medium Office (post 1980), Boulder (5b)						
Building Area (m2)	530.36 <small>Get this value from "Building Area" table</small>					
End Uses						
	Electricity [GJ]	Natural Gas [GJ]	Other Fuel [GJ]	District Cooling [GJ]	District Heating [GJ]	Water [m3]
Heating	0	0	0	0	344.72	0
Cooling	0	0	0	43.58	0	0
Interior Lighting	101.36	0	0	0	0	0
Exterior Lighting	0	0	0	0	0	0
Interior Equipment	96.03	0	0	0	0	0
Exterior Equipment	0	0	0	0	0	0
Fans	0	0	0	0	0	0
Pumps	0	0	0	0	0	0
Heat Rejection	0	0	0	0	0	0
Humidification	0	0	0	0	0	0
Heat Recovery	0	0	0	0	0	0
Water Systems	0	0	0	0	0	0
Refrigeration	0	0	0	0	0	0
Generators	0	0	0	0	0	0
Total End Uses	197.39	0	0	43.58	344.72	0

Proposed Model New Lights & Equip (2009 Low Energy Case)						
Building Area (m2)	530.36 <small>Get this value from "Building Area" table</small>					
End Uses						
	Electricity [GJ]	Natural Gas [GJ]	Other Fuel [GJ]	District Cooling [GJ]	District Heating [GJ]	Water [m3]
Heating	0	0	0	0	396.7	0
Cooling	0	0	0	31.79	0	0
Interior Lighting	64.56	0	0	0	0	0
Exterior Lighting	0	0	0	0	0	0
Interior Equipment	48.42	0	0	0	0	0
Exterior Equipment	0	0	0	0	0	0
Fans	0	0	0	0	0	0
Pumps	0	0	0	0	0	0
Heat Rejection	0	0	0	0	0	0
Humidification	0	0	0	0	0	0
Heat Recovery	0	0	0	0	0	0
Water Systems	0	0	0	0	0	0
Refrigeration	0	0	0	0	0	0
Generators	0	0	0	0	0	0
Total End Uses	112.98	0	0	31.79	396.7	0



Total EUI Savings (Kbtu/ft2): 3.9

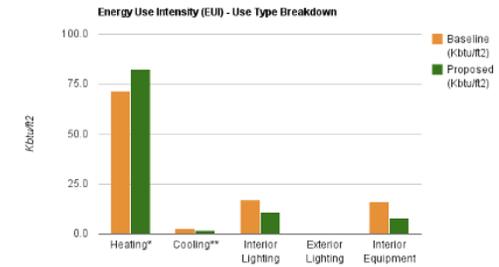
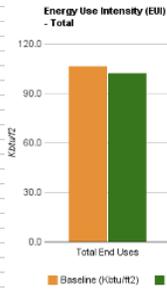


Global Coefficient of Performance values applied to end use charts and tables (except for raw data above)

COP	
Heating	0.80**
Cooling	3.00**

Energy Use Comparison (GJ)

	Baseline (GJ)	Proposed (GJ)	Savings (GJ)	Savings %
Heating*	430.90	495.88	-64.97	-15.08%
Cooling**	14.53	10.60	3.93	27.05%
Interior Lighting	101.36	64.56	36.80	36.31%
Exterior Lighting	0.00	0.00	0.00	0.00%
Interior Equipment	96.03	48.42	47.61	49.58%
Exterior Equipment	0.00	0.00	0.00	0.00%
Fans	0.00	0.00	0.00	0.00%
Pumps	0.00	0.00	0.00	0.00%
Heat Rejection	0.00	0.00	0.00	0.00%
Humidification	0.00	0.00	0.00	0.00%
Heat Recovery	0.00	0.00	0.00	0.00%
Water Systems	0.00	0.00	0.00	0.00%
Refrigeration	0.00	0.00	0.00	0.00%
Generators	0.00	0.00	0.00	0.00%
Total End Uses	642.82	619.45	23.37	3.63%
area (m2)	530.36	530.36		



Energy Use Intensity (EUI)

	Baseline (MJ/m2)	Proposed (MJ/m2)
Heating*	812.5	935.0
Cooling**	27.4	20.0
Interior Lighting	191.1	121.7
Exterior Lighting	0.0	0.0
Interior Equipment	181.1	91.3
Exterior Equipment	0.0	0.0
Fans	0.0	0.0
Pumps	0.0	0.0
Heat Rejection	0.0	0.0
Humidification	0.0	0.0
Heat Recovery	0.0	0.0
Water Systems	14.53	0.0
Refrigeration	0.0	0.0
Generators	0.0	0.0
Total End Uses	1,212.0	1,168.0
area (m2)	530.36	530.36

Energy Use Intensity (EUI)

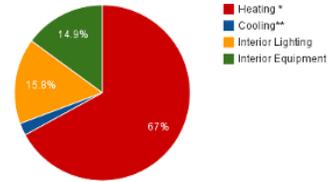
	Baseline (Kbtu/ft2)	Proposed (Kbtu/ft2)	Proposed EUI Savings (Kbtu/ft2)
Heating*	71.5	82.3	-10.8
Cooling**	2.4	1.8	0.7
Interior Lighting	16.8	10.7	6.1
Exterior Lighting	0.0	0.0	0.0
Interior Equipment	15.9	8.0	7.9
Exterior Equipment	0.0	0.0	0.0
Fans	0.0	0.0	0.0
Pumps	0.0	0.0	0.0
Heat Rejection	0.0	0.0	0.0
Humidification	0.0	0.0	0.0
Heat Recovery	0.0	0.0	0.0
Water Systems	0.0	0.0	0.0
Refrigeration	0.0	0.0	0.0
Generators	0.0	0.0	0.0
Total End Uses	106.7	102.8	3.9
area (ft2)	5,709	5,709	

Annual Building Utility Performance Graphing - Office-NewWindows&Roof

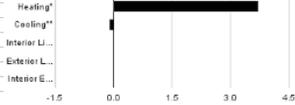
Instructions: Paste data in from your Annual Building Utility Performance Summary into the two colored blocks below

Baseline Model Baseline Medium Office (post 1980), Boulder (5b)							
Building Area (m2)	530.36 <small>Get this value from "Building Area" table</small>						
End Uses							
	Electricity [GJ]	Natural Gas [GJ]	Other Fuel [GJ]	District Cooling [GJ]	District Heating [GJ]	Water [m3]	
Heating	0	0	0	0	344.72	0	0
Cooling	0	0	0	43.58	0	0	0
Interior Lighting	101.36	0	0	0	0	0	0
Exterior Lighting	0	0	0	0	0	0	0
Interior Equipment	96.03	0	0	0	0	0	0
Exterior Equipment	0	0	0	0	0	0	0
Fans	0	0	0	0	0	0	0
Pumps	0	0	0	0	0	0	0
Heat Rejection	0	0	0	0	0	0	0
Humidification	0	0	0	0	0	0	0
Heat Recovery	0	0	0	0	0	0	0
Water Systems	0	0	0	0	0	0	0
Refrigeration	0	0	0	0	0	0	0
Generators	0	0	0	0	0	0	0
Total End Uses	197.39	0	0	43.58	344.72	0	0

Baseline End Use Breakdown



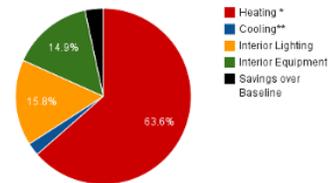
Proposed EUI Savings (Kbtu/#2)



Total EUI Savings (Kbtu/ft2): 3.6

Proposed Model New Windows and Roof (2009 Low Energy Case)							
Building Area (m2)	530.36 <small>Get this value from "Building Area" table</small>						
End Uses							
	Electricity [GJ]	Natural Gas [GJ]	Other Fuel [GJ]	District Cooling [GJ]	District Heating [GJ]	Water [m3]	
Heating	0	0	0	0	326.81	0	0
Cooling	0	0	0	45.79	0	0	0
Interior Lighting	101.36	0	0	0	0	0	0
Exterior Lighting	0	0	0	0	0	0	0
Interior Equipment	96.03	0	0	0	0	0	0
Exterior Equipment	0	0	0	0	0	0	0
Fans	0	0	0	0	0	0	0
Pumps	0	0	0	0	0	0	0
Heat Rejection	0	0	0	0	0	0	0
Humidification	0	0	0	0	0	0	0
Heat Recovery	0	0	0	0	0	0	0
Water Systems	0	0	0	0	0	0	0
Refrigeration	0	0	0	0	0	0	0
Generators	0	0	0	0	0	0	0
Total End Uses	197.39	0	0	45.79	326.81	0	0

Proposed End Use Breakdown



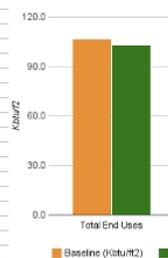
Global Coefficient of Performance values applied to end use charts and tables (except for raw data above)

	COP
Heating	0.80**
Cooling	3.00**

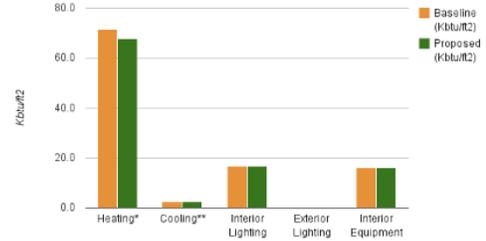
Energy Use Comparison (GJ)

	Baseline (GJ)	Proposed (GJ)	Savings (GJ)	Proposed Savings
Heating*	430.90	408.51	22.39	5.20%
Cooling**	14.53	15.28	-0.74	-5.07%
Interior Lighting	101.36	101.36	0.00	0.00%
Exterior Lighting	0.00	0.00	0.00	0.00%
Interior Equipment	96.03	96.03	0.00	0.00%
Exterior Equipment	0.00	0.00	0.00	0.00%
Fans	0.00	0.00	0.00	0.00%
Pumps	0.00	0.00	0.00	0.00%
Heat Rejection	0.00	0.00	0.00	0.00%
Humidification	0.00	0.00	0.00	0.00%
Heat Recovery	0.00	0.00	0.00	0.00%
Water Systems	0.00	0.00	0.00	0.00%
Refrigeration	0.00	0.00	0.00	0.00%
Generators	0.00	0.00	0.00	0.00%
Total End Uses	642.82	621.17	21.65	3.37%
area (m2)	530.36	530.36		

Energy Use Intensity (EUI) - Total



Energy Use Intensity (EUI) - Use Type Breakdown



Energy Use Intensity (EUI)

	Baseline (MJ/m2)	Proposed (MJ/m2)
Heating*	812.5	770.3
Cooling**	27.4	28.8
Interior Lighting	191.1	191.1
Exterior Lighting	0.0	0.0
Interior Equipment	181.1	181.1
Exterior Equipment	0.0	0.0
Fans	0.0	0.0
Pumps	0.0	0.0
Heat Rejection	0.0	0.0
Humidification	0.0	0.0
Heat Recovery	0.0	0.0
Water Systems	0.0	0.0
Refrigeration	0.0	0.0
Generators	0.0	0.0
Total End Uses	1,212.0	1,171.2
area (m2)	530.36	530.36

Energy Use Intensity (EUI)

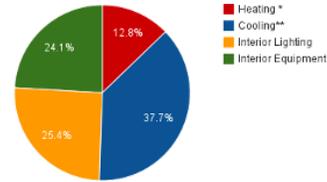
	Baseline (Kbtu/ft2)	Proposed (Kbtu/ft2)	Proposed EUI Savings (Kbtu/ft2)
Heating*	71.5	67.8	3.7
Cooling**	2.4	2.5	-0.1
Interior Lighting	16.8	16.8	0.0
Exterior Lighting	0.0	0.0	0.0
Interior Equipment	15.9	15.9	0.0
Exterior Equipment	0.0	0.0	0.0
Fans	0.0	0.0	0.0
Pumps	0.0	0.0	0.0
Heat Rejection	0.0	0.0	0.0
Humidification	0.0	0.0	0.0
Heat Recovery	0.0	0.0	0.0
Water Systems	0.0	0.0	0.0
Refrigeration	0.0	0.0	0.0
Generators	0.0	0.0	0.0
Total End Uses	106.7	103.1	3.6
area (ft2)	5,709	5,709	

Annual Building Utility Performance Graphing - Tampa-Office-NewLights&Equip

Instructions: Paste data in from your Annual Building Utility Performance Summary into the two colored blocks below

Baseline Model						
Baseline Medium Office (post 1980), Tampa (2a)						
Building Area (m2)	530.36 <small>Get this value from "Building Area" table</small>					
End Uses						
	Electricity [GJ]	Natural Gas [GJ]	Other Fuel [GJ]	District Cooling [GJ]	District Heating [GJ]	Water [m3]
Heating	0	0	0	0	40.8	0
Cooling	0	0	0	451.64	0	0
Interior Lighting	101.36	0	0	0	0	0
Exterior Lighting	0	0	0	0	0	0
Interior Equipment	96.03	0	0	0	0	0
Exterior Equipment	0	0	0	0	0	0
Fans	0	0	0	0	0	0
Pumps	0	0	0	0	0	0
Heat Rejection	0	0	0	0	0	0
Humidification	0	0	0	0	0	0
Heat Recovery	0	0	0	0	0	0
Water Systems	0	0	0	0	0	0
Refrigeration	0	0	0	0	0	0
Generators	0	0	0	0	0	0
Total End Uses	197.39	0	0	451.64	40.8	0

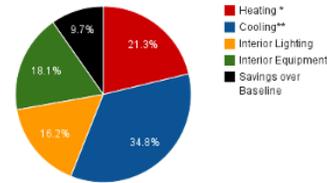
Baseline End Use Breakdown



Total EUI Savings (Kbtu/ft2): 6.5

Proposed Model						
New Lights & Equip (2009 Low Energy Case)						
Building Area (m2)	530.36 <small>Get this value from "Building Area" table</small>					
End Uses						
	Electricity [GJ]	Natural Gas [GJ]	Other Fuel [GJ]	District Cooling [GJ]	District Heating [GJ]	Water [m3]
Heating	0	0	0	0	67.82	0
Cooling	0	0	0	416.13	0	0
Interior Lighting	64.56	0	0	0	0	0
Exterior Lighting	0	0	0	0	0	0
Interior Equipment	72.02	0	0	0	0	0
Exterior Equipment	0	0	0	0	0	0
Fans	0	0	0	0	0	0
Pumps	0	0	0	0	0	0
Heat Rejection	0	0	0	0	0	0
Humidification	0	0	0	0	0	0
Heat Recovery	0	0	0	0	0	0
Water Systems	0	0	0	0	0	0
Refrigeration	0	0	0	0	0	0
Generators	0	0	0	0	0	0
Total End Uses	136.58	0	0	416.13	67.82	0

Proposed End Use Breakdown



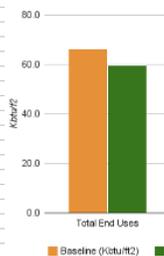
Global Coefficient of Performance values applied to end use charts and tables (except for raw data above)

	COP
Heating	0.80**
Cooling	3.00**

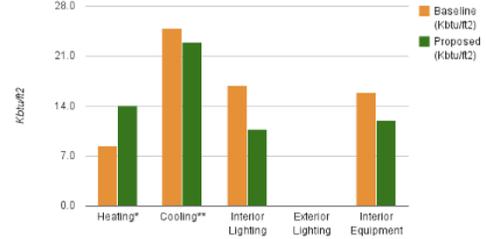
Energy Use Comparison (GJ)

	Baseline (GJ)	Proposed (GJ)	Savings (GJ)	Proposed Savings
Heating*	51.00	84.78	-33.78	-66.23%
Cooling**	150.55	138.71	11.84	7.86%
Interior Lighting	101.36	64.56	36.80	36.31%
Exterior Lighting	0.00	0.00	0.00	0.00%
Interior Equipment	96.03	72.02	24.01	25.00%
Exterior Equipment	0.00	0.00	0.00	0.00%
Fans	0.00	0.00	0.00	0.00%
Pumps	0.00	0.00	0.00	0.00%
Heat Rejection	0.00	0.00	0.00	0.00%
Humidification	0.00	0.00	0.00	0.00%
Heat Recovery	0.00	0.00	0.00	0.00%
Water Systems	0.00	0.00	0.00	0.00%
Refrigeration	0.00	0.00	0.00	0.00%
Generators	0.00	0.00	0.00	0.00%
Total End Uses	398.94	360.07	38.87	9.74%
area (m2)	530.36	530.36		

Energy Use Intensity (EUI) - Total



Energy Use Intensity (EUI) - Use Type Breakdown



Energy Use Intensity (EUI)

	Baseline (MJ/m2)	Proposed (MJ/m2)
Heating*	96.2	159.8
Cooling**	283.9	261.5
Interior Lighting	191.1	121.7
Exterior Lighting	0.0	0.0
Interior Equipment	181.1	135.8
Exterior Equipment	0.0	0.0
Fans	0.0	0.0
Pumps	0.0	0.0
Heat Rejection	0.0	0.0
Humidification	0.0	0.0
Heat Recovery	0.0	0.0
Water Systems	0.0	0.0
Refrigeration	0.0	0.0
Generators	0.0	0.0
Total End Uses	752.2	678.9
area (m2)	530.36	530.36

Energy Use Intensity (EUI)

	Baseline (Kbtu/ft2)	Proposed (Kbtu/ft2)	Proposed EUI Savings (Kbtu/ft2)
Heating*	8.5	14.1	-5.6
Cooling**	25.0	23.0	2.0
Interior Lighting	16.8	10.7	6.1
Exterior Lighting	0.0	0.0	0.0
Interior Equipment	15.9	12.0	4.0
Exterior Equipment	0.0	0.0	0.0
Fans	0.0	0.0	0.0
Pumps	0.0	0.0	0.0
Heat Rejection	0.0	0.0	0.0
Humidification	0.0	0.0	0.0
Heat Recovery	0.0	0.0	0.0
Water Systems	0.0	0.0	0.0
Refrigeration	0.0	0.0	0.0
Generators	0.0	0.0	0.0
Total End Uses	66.2	59.8	6.5
area (ft2)	5,709	5,709	

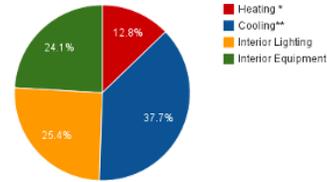
Annual Building Utility Performance Graphing - Tampa-Office-NewWindows&Roof

Instructions: Paste data in from your Annual Building Utility Performance Summary into the two colored blocks below

Baseline Model						
Baseline Medium Office (post 1980), Tampa (2a)						
Building Area (m2)	530.36 <small>Get this value from "Building Area" table</small>					
End Uses						
	Electricity [GJ]	Natural Gas [GJ]	Other Fuel [GJ]	District Cooling [GJ]	District Heating [GJ]	Water [m3]
Heating	0	0	0	0	40.8	0
Cooling	0	0	0	451.64	0	0
Interior Lighting	101.36	0	0	0	0	0
Exterior Lighting	0	0	0	0	0	0
Interior Equipment	96.03	0	0	0	0	0
Exterior Equipment	0	0	0	0	0	0
Fans	0	0	0	0	0	0
Pumps	0	0	0	0	0	0
Heat Rejection	0	0	0	0	0	0
Humidification	0	0	0	0	0	0
Heat Recovery	0	0	0	0	0	0
Water Systems	0	0	0	0	0	0
Refrigeration	0	0	0	0	0	0
Generators	0	0	0	0	0	0
Total End Uses	197.39	0	0	451.64	40.8	0

Proposed Model						
New Windows and Roof (2009 Low Energy Case)						
Building Area (m2)	530.36 <small>Get this value from "Building Area" table</small>					
End Uses						
	Electricity [GJ]	Natural Gas [GJ]	Other Fuel [GJ]	District Cooling [GJ]	District Heating [GJ]	Water [m3]
Heating	0	0	0	0	36.53	0
Cooling	0	0	0	415.89	0	0
Interior Lighting	101.36	0	0	0	0	0
Exterior Lighting	0	0	0	0	0	0
Interior Equipment	96.03	0	0	0	0	0
Exterior Equipment	0	0	0	0	0	0
Fans	0	0	0	0	0	0
Pumps	0	0	0	0	0	0
Heat Rejection	0	0	0	0	0	0
Humidification	0	0	0	0	0	0
Heat Recovery	0	0	0	0	0	0
Water Systems	0	0	0	0	0	0
Refrigeration	0	0	0	0	0	0
Generators	0	0	0	0	0	0
Total End Uses	197.39	0	0	415.89	36.53	0

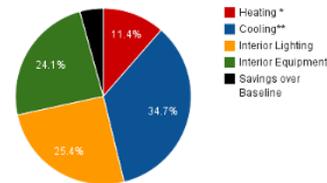
Baseline End Use Breakdown



Proposed EUI Savings (Kbtu/ft2)



Proposed End Use Breakdown



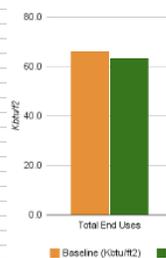
Global Coefficient of Performance values applied to end use charts and tables (except for raw data above)

	COP
Heating	0.80**
Cooling	3.00**

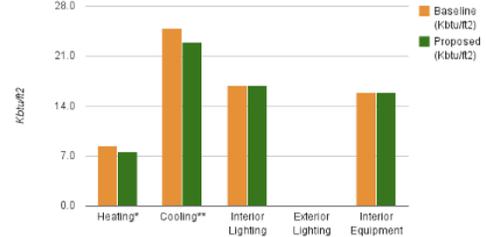
Energy Use Comparison (GJ)

	Baseline (GJ)	Proposed (GJ)	Savings (GJ)	Proposed Savings
Heating*	51.00	45.66	5.34	10.47%
Cooling**	150.55	138.63	11.92	7.92%
Interior Lighting	101.36	101.36	0.00	0.00%
Exterior Lighting	0.00	0.00	0.00	0.00%
Interior Equipment	96.03	96.03	0.00	0.00%
Exterior Equipment	0.00	0.00	0.00	0.00%
Fans	0.00	0.00	0.00	0.00%
Pumps	0.00	0.00	0.00	0.00%
Heat Rejection	0.00	0.00	0.00	0.00%
Humidification	0.00	0.00	0.00	0.00%
Heat Recovery	0.00	0.00	0.00	0.00%
Water Systems	0.00	0.00	0.00	0.00%
Refrigeration	0.00	0.00	0.00	0.00%
Generators	0.00	0.00	0.00	0.00%
Total End Uses	398.94	381.68	17.25	4.33%
area (m2)	530.36	530.36		

Energy Use Intensity (EUI) - Total



Energy Use Intensity (EUI) - Use Type Breakdown



Energy Use Intensity (EUI)

	Baseline (MJ/m2)	Proposed (MJ/m2)
Heating*	96.2	86.1
Cooling**	283.9	261.4
Interior Lighting	191.1	191.1
Exterior Lighting	0.0	0.0
Interior Equipment	181.1	181.1
Exterior Equipment	0.0	0.0
Fans	0.0	0.0
Pumps	0.0	0.0
Heat Rejection	0.0	0.0
Humidification	0.0	0.0
Heat Recovery	0.0	0.0
Water Systems	0.0	0.0
Refrigeration	0.0	0.0
Generators	0.0	0.0
Total End Uses	752.2	719.7
area (m2)	530.36	530.36

Energy Use Intensity (EUI)

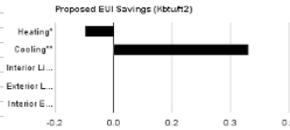
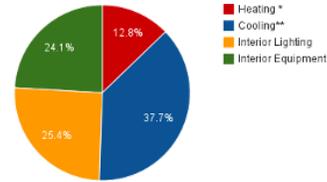
	Baseline (Kbtu/ft2)	Proposed (Kbtu/ft2)	Proposed EUI Savings (Kbtu/ft2)
Heating*	8.5	7.6	0.9
Cooling**	25.0	23.0	2.0
Interior Lighting	16.8	16.8	0.0
Exterior Lighting	0.0	0.0	0.0
Interior Equipment	15.9	15.9	0.0
Exterior Equipment	0.0	0.0	0.0
Fans	0.0	0.0	0.0
Pumps	0.0	0.0	0.0
Heat Rejection	0.0	0.0	0.0
Humidification	0.0	0.0	0.0
Heat Recovery	0.0	0.0	0.0
Water Systems	0.0	0.0	0.0
Refrigeration	0.0	0.0	0.0
Generators	0.0	0.0	0.0
Total End Uses	66.2	63.4	2.9
area (ft2)	5,709	5,709	

Annual Building Utility Performance Graphing - Tampa-Office-CoolRoof

Instructions: Paste data in from your Annual Building Utility Performance Summary into the two colored blocks below

Baseline Model Baseline Medium Office (post 1980), Tampa (2a)						
Building Area (m2)	530.36 <small>Get this value from "Building Area" table</small>					
End Uses						
	Electricity [GJ]	Natural Gas [GJ]	Other Fuel [GJ]	District Cooling [GJ]	District Heating [GJ]	Water [m3]
Heating	0	0	0	0	40.8	0
Cooling	0	0	0	451.64	0	0
Interior Lighting	101.36	0	0	0	0	0
Exterior Lighting	0	0	0	0	0	0
Interior Equipment	96.03	0	0	0	0	0
Exterior Equipment	0	0	0	0	0	0
Fans	0	0	0	0	0	0
Pumps	0	0	0	0	0	0
Heat Rejection	0	0	0	0	0	0
Humidification	0	0	0	0	0	0
Heat Recovery	0	0	0	0	0	0
Water Systems	0	0	0	0	0	0
Refrigeration	0	0	0	0	0	0
Generators	0	0	0	0	0	0
Total End Uses	197.39	0	0	451.64	40.8	0

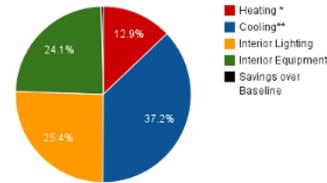
Baseline End Use Breakdown



Total EUI Savings (Kbtu/ft2): 0.3

Proposed Model Cool Roof (from .1 to .85 SRI)						
Building Area (m2)	530.36 <small>Get this value from "Building Area" table</small>					
End Uses						
	Electricity [GJ]	Natural Gas [GJ]	Other Fuel [GJ]	District Cooling [GJ]	District Heating [GJ]	Water [m3]
Heating	0	0	0	0	41.16	0
Cooling	0	0	0	445.37	0	0
Interior Lighting	101.36	0	0	0	0	0
Exterior Lighting	0	0	0	0	0	0
Interior Equipment	96.03	0	0	0	0	0
Exterior Equipment	0	0	0	0	0	0
Fans	0	0	0	0	0	0
Pumps	0	0	0	0	0	0
Heat Rejection	0	0	0	0	0	0
Humidification	0	0	0	0	0	0
Heat Recovery	0	0	0	0	0	0
Water Systems	0	0	0	0	0	0
Refrigeration	0	0	0	0	0	0
Generators	0	0	0	0	0	0
Total End Uses	197.39	0	0	445.37	41.16	0

Proposed End Use Breakdown



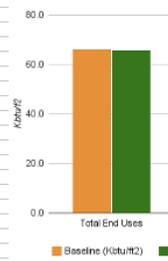
Global Coefficient of Performance values applied to end use charts and tables (except for raw data above)

COP	
Heating	0.80**
Cooling	3.00**

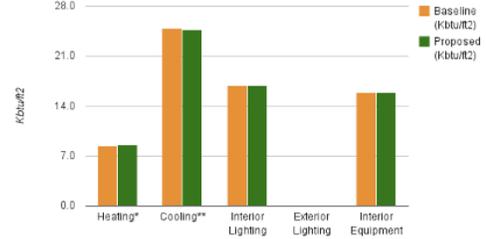
Energy Use Comparison (GJ)

	Baseline (GJ)	Proposed (GJ)	Savings (GJ)	Proposed Savings
Heating*	51.00	51.45	-0.45	-0.88%
Cooling**	150.55	148.46	2.09	1.39%
Interior Lighting	101.36	101.36	0.00	0.00%
Exterior Lighting	0.00	0.00	0.00	0.00%
Interior Equipment	96.03	96.03	0.00	0.00%
Exterior Equipment	0.00	0.00	0.00	0.00%
Fans	0.00	0.00	0.00	0.00%
Pumps	0.00	0.00	0.00	0.00%
Heat Rejection	0.00	0.00	0.00	0.00%
Humidification	0.00	0.00	0.00	0.00%
Heat Recovery	0.00	0.00	0.00	0.00%
Water Systems	0.00	0.00	0.00	0.00%
Refrigeration	0.00	0.00	0.00	0.00%
Generators	0.00	0.00	0.00	0.00%
Total End Uses	398.94	397.30	1.64	0.41%
area (m2)	530.36	530.36		

Energy Use Intensity (EUI) - Total



Energy Use Intensity (EUI) - Use Type Breakdown



Energy Use Intensity (EUI)

	Baseline (MJ/m2)	Proposed (MJ/m2)
Heating*	96.2	97.0
Cooling**	283.9	279.9
Interior Lighting	191.1	191.1
Exterior Lighting	0.0	0.0
Interior Equipment	181.1	181.1
Exterior Equipment	0.0	0.0
Fans	0.0	0.0
Pumps	0.0	0.0
Heat Rejection	0.0	0.0
Humidification	0.0	0.0
Heat Recovery	0.0	0.0
Water Systems	0.0	0.0
Refrigeration	0.0	0.0
Generators	0.0	0.0
Total End Uses	752.2	749.1
area (m2)	530.36	530.36

Energy Use Intensity (EUI)

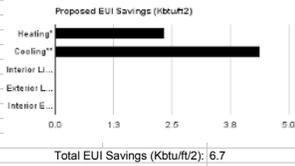
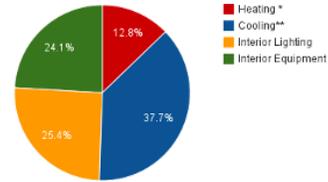
	Baseline (Kbtu/ft2)	Proposed (Kbtu/ft2)	Proposed EUI Savings (Kbtu/ft2)
Heating*	8.5	8.5	-0.1
Cooling**	25.0	24.6	0.3
Interior Lighting	16.8	16.8	0.0
Exterior Lighting	0.0	0.0	0.0
Interior Equipment	15.9	15.9	0.0
Exterior Equipment	0.0	0.0	0.0
Fans	0.0	0.0	0.0
Pumps	0.0	0.0	0.0
Heat Rejection	0.0	0.0	0.0
Humidification	0.0	0.0	0.0
Heat Recovery	0.0	0.0	0.0
Water Systems	0.0	0.0	0.0
Refrigeration	0.0	0.0	0.0
Generators	0.0	0.0	0.0
Total End Uses	66.2	66.0	0.3
area (ft2)	5,709	5,709	

Annual Building Utility Performance Graphing - Thermostat Adjustment

Instructions: Paste data in from your Annual Building Utility Performance Summary into the two colored blocks below

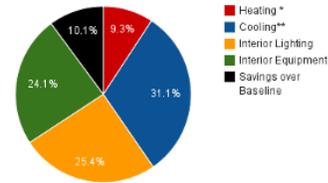
Baseline Model Baseline Medium Office (post 1980), Tampa (2a)						
Building Area (m2)	530.36 <small>Get this value from "Building Area" table</small>					
End Uses						
	Electricity [GJ]	Natural Gas [GJ]	Other Fuel [GJ]	District Cooling [GJ]	District Heating [GJ]	Water [m3]
Heating	0	0	0	0	40.8	0
Cooling	0	0	0	451.64	0	0
Interior Lighting	101.36	0	0	0	0	0
Exterior Lighting	0	0	0	0	0	0
Interior Equipment	96.03	0	0	0	0	0
Exterior Equipment	0	0	0	0	0	0
Fans	0	0	0	0	0	0
Pumps	0	0	0	0	0	0
Heat Rejection	0	0	0	0	0	0
Humidification	0	0	0	0	0	0
Heat Recovery	0	0	0	0	0	0
Water Systems	0	0	0	0	0	0
Refrigeration	0	0	0	0	0	0
Generators	0	0	0	0	0	0
Total End Uses	197.39	0	0	451.64	40.8	0

Baseline End Use Breakdown



Proposed Model Thermostat Temperature Adjustment (1deg cel. heating and cooling setpoint)						
Building Area (m2)	530.36 <small>Get this value from "Building Area" table</small>					
End Uses						
	Electricity [GJ]	Natural Gas [GJ]	Other Fuel [GJ]	District Cooling [GJ]	District Heating [GJ]	Water [m3]
Heating	0	0	0	0	29.54	0
Cooling	0	0	0	372.52	0	0
Interior Lighting	101.36	0	0	0	0	0
Exterior Lighting	0	0	0	0	0	0
Interior Equipment	96.03	0	0	0	0	0
Exterior Equipment	0	0	0	0	0	0
Fans	0	0	0	0	0	0
Pumps	0	0	0	0	0	0
Heat Rejection	0	0	0	0	0	0
Humidification	0	0	0	0	0	0
Heat Recovery	0	0	0	0	0	0
Water Systems	0	0	0	0	0	0
Refrigeration	0	0	0	0	0	0
Generators	0	0	0	0	0	0
Total End Uses	197.39	0	0	372.52	29.54	0

Proposed End Use Breakdown



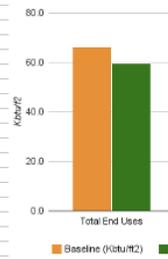
Global Coefficient of Performance values applied to end use charts and tables (except for raw data above)

COP	
Heating	0.80**
Cooling	3.00**

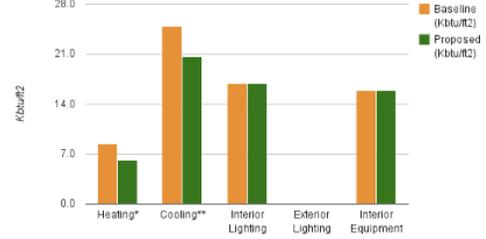
Energy Use Comparison (GJ)

	Baseline (GJ)	Proposed (GJ)	Savings (GJ)	Proposed Savings
Heating*	51.00	36.93	14.08	27.60%
Cooling**	150.55	124.17	26.37	17.52%
Interior Lighting	101.36	101.36	0.00	0.00%
Exterior Lighting	0.00	0.00	0.00	0.00%
Interior Equipment	96.03	96.03	0.00	0.00%
Exterior Equipment	0.00	0.00	0.00	0.00%
Fans	0.00	0.00	0.00	0.00%
Pumps	0.00	0.00	0.00	0.00%
Heat Rejection	0.00	0.00	0.00	0.00%
Humidification	0.00	0.00	0.00	0.00%
Heat Recovery	0.00	0.00	0.00	0.00%
Water Systems	0.00	0.00	0.00	0.00%
Refrigeration	0.00	0.00	0.00	0.00%
Generators	0.00	0.00	0.00	0.00%
Total End Uses	398.94	358.49	40.45	10.14%
area (m2)	530.36	530.36		

Energy Use Intensity (EUI) - Total



Energy Use Intensity (EUI) - Use Type Breakdown



Energy Use Intensity (EUI)

	Baseline (MJ/m2)	Proposed (MJ/m2)
Heating*	96.2	69.6
Cooling**	283.9	234.1
Interior Lighting	191.1	191.1
Exterior Lighting	0.0	0.0
Interior Equipment	181.1	181.1
Exterior Equipment	0.0	0.0
Fans	0.0	0.0
Pumps	0.0	0.0
Heat Rejection	0.0	0.0
Humidification	0.0	0.0
Heat Recovery	0.0	0.0
Water Systems	0.0	0.0
Refrigeration	0.0	0.0
Generators	0.0	0.0
Total End Uses	752.2	675.9
area (m2)	530.36	530.36

Energy Use Intensity (EUI)

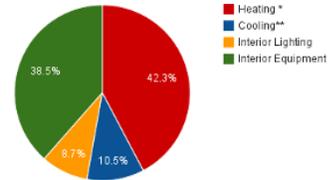
	Baseline (Kbtu/ft2)	Proposed (Kbtu/ft2)	Proposed EUI Savings (Kbtu/ft2)
Heating*	8.5	6.1	2.3
Cooling**	25.0	20.6	4.4
Interior Lighting	16.8	16.8	0.0
Exterior Lighting	0.0	0.0	0.0
Interior Equipment	15.9	15.9	0.0
Exterior Equipment	0.0	0.0	0.0
Fans	0.0	0.0	0.0
Pumps	0.0	0.0	0.0
Heat Rejection	0.0	0.0	0.0
Humidification	0.0	0.0	0.0
Heat Recovery	0.0	0.0	0.0
Water Systems	0.0	0.0	0.0
Refrigeration	0.0	0.0	0.0
Generators	0.0	0.0	0.0
Total End Uses	66.2	59.5	6.7
area (ft2)	5,709	5,709	

Annual Building Utility Performance Graphing - Envelope Elimination

Instructions: Paste data in from your Annual Building Utility Performance Summary into the two colored blocks below

Baseline Model Baseline Full Service Restaurant (post 1980), Boulder (5b)							
Building Area (m2)	530.36 <small>Get this value from "Building Area" table</small>						
End Uses							
	Electricity [GJ]	Natural Gas [GJ]	Other Fuel [GJ]	District Cooling [GJ]	District Heating [GJ]	Water [m3]	
Heating	0	0	0	0	1146.32	0	0
Cooling	0	0	0	1070.33	0	0	0
Interior Lighting	294.38	0	0	0	0	0	0
Exterior Lighting	0	0	0	0	0	0	0
Interior Equipment	559.86	745.33	0	0	0	0	0
Exterior Equipment	0	0	0	0	0	0	0
Fans	0	0	0	0	0	0	0
Pumps	0	0	0	0	0	0	0
Heat Rejection	0	0	0	0	0	0	0
Humidification	0	0	0	0	0	0	0
Heat Recovery	0	0	0	0	0	0	0
Water Systems	0	0	0	0	0	0	0
Refrigeration	0	0	0	0	0	0	0
Generators	0	0	0	0	0	0	0
Total End Uses	854.24	745.33	0	1070.33	1146.32	0	0

Baseline End Use Breakdown

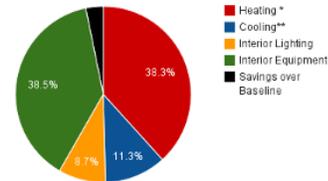


Proposed EUI Savings (Kbtu/ft2)



Proposed Model Envelope Elimination Parametric							
Building Area (m2)	530.36 <small>Get this value from "Building Area" table</small>						
End Uses							
	Electricity [GJ]	Natural Gas [GJ]	Other Fuel [GJ]	District Cooling [GJ]	District Heating [GJ]	Water [m3]	
Heating	0	0	0	0	1037.44	0	0
Cooling	0	0	0	1152.4	0	0	0
Interior Lighting	294.38	0	0	0	0	0	0
Exterior Lighting	0	0	0	0	0	0	0
Interior Equipment	559.86	745.33	0	0	0	0	0
Exterior Equipment	0	0	0	0	0	0	0
Fans	0	0	0	0	0	0	0
Pumps	0	0	0	0	0	0	0
Heat Rejection	0	0	0	0	0	0	0
Humidification	0	0	0	0	0	0	0
Heat Recovery	0	0	0	0	0	0	0
Water Systems	0	0	0	0	0	0	0
Refrigeration	0	0	0	0	0	0	0
Generators	0	0	0	0	0	0	0
Total End Uses	854.24	745.33	0	1152.4	1037.44	0	0

Proposed End Use Breakdown



Global Coefficient of Performance values applied to end use charts and tables (except for raw data above)

	COP
Heating	0.80**
Cooling	3.00**

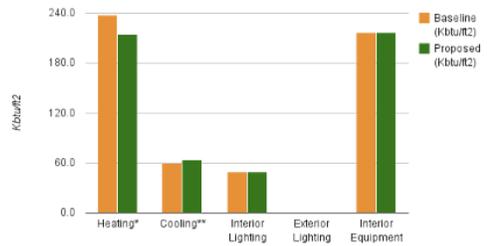
Energy Use Comparison (GJ)

	Baseline (GJ)	Proposed (GJ)	Savings (GJ)	Proposed Savings
Heating*	1,432.90	1,296.80	136.10	9.50%
Cooling**	356.78	384.13	-27.36	-7.67%
Interior Lighting	294.38	294.38	0.00	0.00%
Exterior Lighting	0.00	0.00	0.00	0.00%
Interior Equipment	1,305.19	1,305.19	0.00	0.00%
Exterior Equipment	0.00	0.00	0.00	0.00%
Fans	0.00	0.00	0.00	0.00%
Pumps	0.00	0.00	0.00	0.00%
Heat Rejection	0.00	0.00	0.00	0.00%
Humidification	0.00	0.00	0.00	0.00%
Heat Recovery	0.00	0.00	0.00	0.00%
Water Systems	0.00	0.00	0.00	0.00%
Refrigeration	0.00	0.00	0.00	0.00%
Generators	0.00	0.00	0.00	0.00%
Total End Uses	3,389.25	3,280.50	108.74	3.21%
area (m2)	530.36	530.36		

Energy Use Intensity (EUI) - Total



Energy Use Intensity (EUI) - Use Type Breakdown



Energy Use Intensity (EUI)

	Baseline (MJ/m2)	Proposed (MJ/m2)
Heating*	2,701.7	2,445.1
Cooling**	672.7	724.3
Interior Lighting	555.1	555.1
Exterior Lighting	0.0	0.0
Interior Equipment	2,461.0	2,461.0
Exterior Equipment	0.0	0.0
Fans	0.0	0.0
Pumps	0.0	0.0
Heat Rejection	0.0	0.0
Humidification	0.0	0.0
Heat Recovery	0.0	0.0
Water Systems	0.0	0.0
Refrigeration	0.0	0.0
Generators	0.0	0.0
Total End Uses	6,390.5	6,185.4
area (m2)	530.36	530.36

Energy Use Intensity (EUI)

	Baseline (Kbtu/ft2)	Proposed (Kbtu/ft2)	Proposed EUI Savings (Kbtu/ft2)
Heating*	237.9	215.3	22.6
Cooling**	59.2	63.8	-4.5
Interior Lighting	48.9	48.9	0.0
Exterior Lighting	0.0	0.0	0.0
Interior Equipment	216.7	216.7	0.0
Exterior Equipment	0.0	0.0	0.0
Fans	0.0	0.0	0.0
Pumps	0.0	0.0	0.0
Heat Rejection	0.0	0.0	0.0
Humidification	0.0	0.0	0.0
Heat Recovery	0.0	0.0	0.0
Water Systems	0.0	0.0	0.0
Refrigeration	0.0	0.0	0.0
Generators	0.0	0.0	0.0
Total End Uses	562.7	544.6	18.1
area (ft2)	5,709	5,709	