

**Con Ed Study NYC Manhattan Plaza Energy Savings Work Sheet (kW & kWh Test) for:  
OGD's ACC upgrade for 3000 NYC ptacs**

**Data Test March - > July 2014**

		1 Ton Units	3/4 Ton Units	Total
		1,688	1,335	3,023
Hours	Summer	960	960	960
Hours	Winter	1200	1200	1200
Hours	Shoulder	240	240	240
Hours	Total	2400	2400	2400
kW	Base Summer	0.90	1.20	
kW	Base Shoulder	2.30	3.50	
kW	Base Winter	0.90	1.20	
Per Unit kWh	Base Summer	864	1152	
Per Unit kWh	Base Shoulder	2760	4200	
Per Unit kWh	Base Winter	216	288	
Total kW Pk Summer		1519.2	1602	3,121
Total kWh		1,458,432	1,537,920	2,996,352
Total kWh		4,658,880	5,607,000	10,265,880
Total kWh		364,608	384,480	749,088
<b>Total Base kWh</b>				<b>14,011,320</b>

**Savings based on measurement:** 50 watts per unit summer/shoulder.

Assumption: 100 watt decrease winter / shoulder

20% decrease in operating hours winter/ shoulder; 10% summer

Hours	Summer	864	864	
Hours	Winter	960	960	
Hours	Shoulder	192	192	
Hours	Total	2016	2016	
kW	Base Summer	0.85	1.15	
kW	Base Shoulder	2.20	3.40	
kW	Base Winter	0.80	1.10	
Per Unit kWh	Base Summer	734.4	993.6	
Per Unit kWh	Base Shoulder	2112	3264	
Per Unit kWh	Base Winter	153.6	211.2	
Total kW Pk Summer		1,434.80	1,535.25	2,970
Total kWh		1,239,667	1,326,456	2,566,123
Total kWh		3,565,056	4,357,440	7,922,496
Total kWh		259,277	281,952	541,229
<b>Total Post kWh</b>				<b>11,029,848</b>

**Pk Summer kW Savings**

**151**

**Total Annual kWh Savings**

**2,981,472**

**Incentive:**

**DMP @ \$1,250/kW**

**\$ 188,938**

**EPPS at 16 cents/kWh**

**\$ 477,036**

**Total Incentive**

**\$ 665,973**