

**Calculation of Percent Electricity Savings for Medium Offices in U.S. Climate Zones Relevant to Texas,  
ASHRAE Standard 90.1-2007 vs. ASHRAE Standard 90.1-2004**

Total Electricity	Building Type	Medium Office		Total Electricity	Building Type	Medium Office
	Area (m2)	4982.19				
90.1-2004 KJ	Source	A		90.1-2004 KJ/M2	Source	Calculated
Climate Zone	City			Climate Zone	City	
2A	Houston	2677.00		2A	Houston	0.54
2B	Phoenix	2725.38		2B	Phoenix	0.55
3A	Memphis	2490.15		3A	Memphis	0.50
3B	El Paso	2348.53		3B	El Paso	0.47
4B	Albuquerque	2334.94		4B	Albuquerque	0.47
90.1-2007 KJ	Source	D		90.1-2007 KJ/M2	Source	Calculated
Climate Zone	City			Climate Zone	City	
2A	Houston	2585.70		2A	Houston	0.52
2B	Phoenix	2632.54		2B	Phoenix	0.53
3A	Memphis	2394.25		3A	Memphis	0.48
3B	El Paso	2277.13		3B	El Paso	0.46
4B	Albuquerque	2221.52		4B	Albuquerque	0.45

Medium Office

Differences %

Negative indicates savings

-3.41%  
-3.41%  
-3.85%  
-3.04%  
-4.86%  
-3.71%

Sources

A Medium office, 90.1-2004 zip file, <http://www.energycodes.gov/commercial/901models/>  
D Medium office, 90.1-2007 zip file, <http://www.energycodes.gov/commercial/901models/>