



# Energy Performance Indicator Tool for Pharmaceutical Plants

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## Plant Characteristics

Zip Code:   
 Location:

	Baseline Year	Units	Current Year
Select Year:	<input type="text" value="2006"/>		<input type="text" value="2007"/>
Hours per year of operation	<input type="text" value="6296"/>	hours	<input type="text" value="6296"/>
Total Facility size	<input type="text" value="301"/>	10 <sup>3</sup> sq. ft.	<input type="text" value="301"/>
Percentage of facility - Bulk chemical	<input type="text" value="0%"/>	%	<input type="text" value="0%"/>
Percentage of facility - Fill and Finish	<input type="text" value="60%"/>	%	<input type="text" value="60%"/>
Percentage of facility - R & D	<input type="text" value="0%"/>	%	<input type="text" value="0%"/>
Hours of operation of facility - Bulk Chemical	<input type="text" value="0"/>	hours	<input type="text" value="0"/>
Hours of operation of facility - Finish and Fill	<input type="text" value="8,760"/>	hours	<input type="text" value="8,760"/>
Hours of operation of facility - R & D	<input type="text" value="0"/>	hours	<input type="text" value="0"/>
Hours of operation of facility - Other	<input type="text" value="2,600"/>	hours	<input type="text" value="2,600"/>
30 Year HDD	<input type="text" value="2,179"/>		
30 Year CDD	<input type="text" value="2,816"/>		
Use Actual HDD (optional):	<input type="text"/>		<input type="text"/>
Use Actual CDD (optional):	<input type="text"/>		<input type="text"/>

## Energy Consumption

	Select Units	Electricity	Gas	Distillate Oil	Residual Oil	Coal	Other
		kWH	mMBtu	Gallons	Gallons	mMBtu	mMBtu
<b>Baseline Year (2006)</b>	Annual Purchases	<input type="text" value="22,253,712"/>	<input type="text" value="68,300"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Annual Cost (\$)*	<input type="text" value="1,723,411"/>	<input type="text" value="415,947"/>	<input type="text" value="User defined"/>			
<b>Current Year (2007)</b>	Annual Purchases	<input type="text" value="22,451,690"/>	<input type="text" value="68,117"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Annual Cost (\$)*	<input type="text" value="1,879,434"/>	<input type="text" value="496,222"/>	<input type="text" value="User defined"/>			

\* - user can overwrite with actual costs

## Results

	Your Plant Baseline (2006)	Your Plant Current (2007)	Average Plant (2007)	Efficient Plant (2007)
EPI	92	91	50	75
Annual Energy Cost (\$/year)	\$2,139,358	\$2,375,656	\$4,806,326	\$3,380,600
\$ Energy/ sq. ft.	\$7.11	\$7.89	\$15.97	\$11.23
Total Primary Energy (mMBtu)	297,728	299,567	606,072	426,290
Total Site Energy (mMBtu)	144,230	144,722	292,796	205,942
Total Primary Energy (mMBtu) / sq. ft.	0.99	1.00	2.01	1.42
CO <sub>2</sub> (tons/year)	20,670	20,808	42,098	29,610

Baseline Year (2006)

Current Year (2007)

