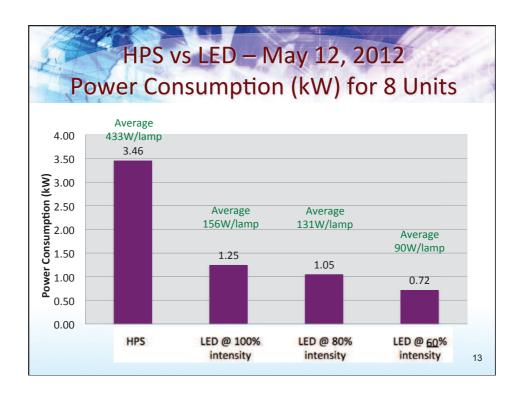


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HPS vs LED Life Cycle Cost (LCC) Analysis		
	Base Case (HPS)	Alternative (LED)
Initial Capital Cost	8*\$300 = \$2,400	8*\$1,300 = \$10,400
Recurring Cost		
(a) Maintenance – replacement cost	Light bulb: \$20 every 3 years Ballast: \$150 every 6 years Labor: 5 man-hrs, \$50/hr Bulb replacement & labor costs: = 8*\$20+\$250 = \$410 Bulb & ballast replacement and labor costs: = 8*(\$20+\$150)+\$250 = \$1610	<u>Life:</u> > 12 years No maintenance cost
(b) Operation – electricity cost @ 11.83c/kWh	14,753 kWh/year or \$1,745/year, 3% inflation	5,620 kWh/year or \$664/year, 3% inflation
Note: CO <sub>2</sub> emission @ 1.232 lbs/kWh*	18,176 lbs CO <sub>2</sub> /year	6,924 lbs CO <sub>2</sub> /year
* Fr	om EIA's eGRID 2012	

