

Project Title: Sample Project
 Project ID: 30206
 Project Manger: T.M.

Prepared By: W.T Sheet: 1 of 1
 Checked By: D.W. Date: 7/3/16

MOTOR ENERGY CONSUMPTION & OPERATING COST ESTIMATES

Notes:

Water Pump

$$EnergyCostPerYear = \frac{(HP) \times (0.746kW / HP) \times (hr / yr) \times (\$ / kWh) \times (LF)}{MotorEfficiency}$$

Motor Operating Cost Estimate					Remarks
	Existing	Option #1	Option #2		
Operating Hours Per Day	24	24	24	hrs	
Operating Days Per Week	7	7	7	days	
Operating Weeks Per Year	52.14	52.14	52.14	weeks	1 yr has 52.143 weeks or 8760 hrs
Annual Operating Hours =	8,760	8,760	8,760	hrs	24/7
Motor HP	20	20	20	HP	
Load Factor =	100%	100%	100%	%	
Energy Cost Rate	\$0.13	\$0.13	\$0.13	\$/kWh	
Motor Efficiency	85.0%	90.0%	93.0%	Eff.	Typical: 85% to 95%
Annual Energy Cost =	\$19,988	\$18,878	\$18,269		

Savings from Existing Pump =	\$0	\$1,110	\$1,719
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REMARKS:

Your Notes Here.