



Pump Efficiency Report: Example Pump

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Report Results

	Baseline	Opportunities Modification
Percent Savings (%)	— —	8 %
Pump efficiency (%)	80.3	86.8
Motor rated power (hp)	200	100
Motor shaft power (hp)	101.2	93.6
Pump shaft power (hp)	101.2	93.6
Motor efficiency (%)	94.4	95
Motor power factor (%)	76.5	86
Motor current (amps)	125.9	102.8
Motor power (hp)	80	73.5
Annual Energy (MWh)	701	644
Annual Energy Savings (MWh)	—	57
Annual Cost	\$35,040	\$32,189
Annual Savings	—	\$2,851
Implementation Cost	—	\$80
Payback Period (months)	—	00
*Optimized		

Input Data

	Baseline	Opportunities Modification
Pump & Fluid		
Pump Type	End Suction ANSI/API	End Suction ANSI/API
Pump (RPM)	1,780	1,780
Drive	Direct Drive	Direct Drive
Specific Gravity	1.00	1.00
Stages	2	2
Motor		
Line Frequency (Hz)	60 Hz	60 Hz
Motor Rated Power (kW)	200 hp	200 hp
Motor (RPM)	1,780	1,780
Efficiency Class	Specified	Specified
Voltage	460	460
Full-Load Amps	225	225
Field Data		
Operating Fraction	1.00	1.00
Cost (kW/hr)	0.05	0.05
Flow Rate (gpm)	1,840	1,840
Head (ft)	174.9	174.9
Load Estimated Method	Power	Power
Motor Power (kW)	80	80
Voltage	480	480
Kinematic Viscosity (cST)	—	1.00
Fixed specific speed?	—	Yes
Size Margin	—	0.00

