

# Example PSAT

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## ASSESSMENT RESULT DATA

	Baseline	Opportunities Modification (Optimized)
Percent Savings	— —	08 %
Pump efficiency (%)	80.26	86.75
Motor rated power (hp)	200.00	100.00
Motor shaft power (hp)	101.19	93.61
Pump shaft power (hp)	101.19	93.61
Motor efficiency (%)	94.36	95.03
Motor power factor (%)	76.46	85.98
Motor current (amps)	125.86	102.81
Motor power (hp)	80.00	73.49
Annual Energy (MWh)	700.80	643.78
Annual Cost	35,040.00	32,188.86
Annual Savings	— —	\$2,851

## ASSESSMENT INPUT DATA

	Baseline	Opportunities Modification
<b>Pump &amp; Fluid</b>		
Pump Type	End Suction ANSI/API	End Suction ANSI/API
Pump RPM	1,780.00	1,780.00
Drive	Direct Drive	Direct Drive
Kinematic Viscosity (cST)	01.00	01.00
Specific Gravity	01.00	01.00
Stages	02.00	02.00
Fixed specific speed?	No	No
<b>Motor</b>		
Line Frequency	60 Hz	60 Hz
Horse Power	200.00 hp	200.00 hp
Motor (RPM)	1,780.00	1,780.00
Efficiency Class	Specified	Specified
Voltage	460.00	460.00
Full-Load Amps	225.00	225.00
Size Margin	00.00	00.00
<b>Field Data</b>		
Operating Fraction	01.00	01.00
Cost (kW/hr)	00.05	00.05
Flow Rate (gpm)	1,840.00	1,840.00
Head (ft)	174.85	174.85
Load Estimated Method	Power	Power
Motor Power (kW)	80.00	80.00
Voltage	480.00	480.00