

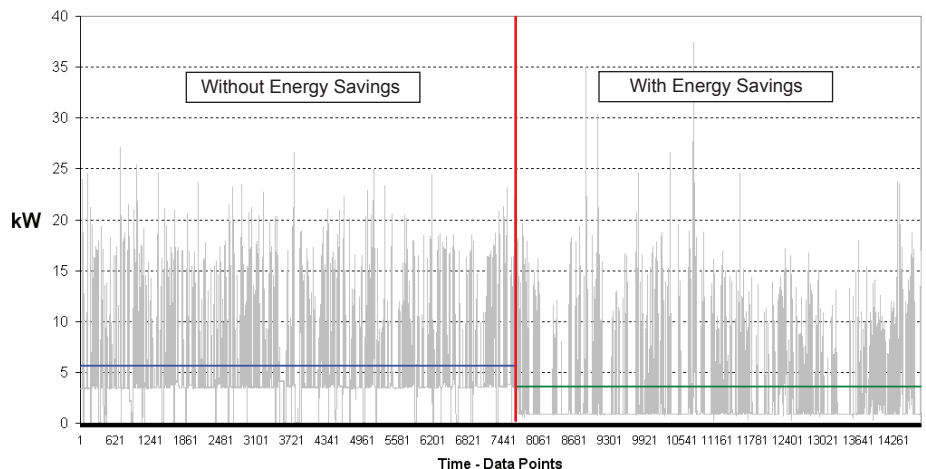


**TEST SUMMARY**

A 50HP Power Efficiency Corporation Motor Efficiency Controller was installed on a granulator motor at a Plastic Product Manufacturer plant in Henderson, NV for reducing energy consumption, electricity costs, and their environmental footprint. Baseline kilowatt usage, and power factor data was collected prior to the installation to estimate the amount of energy savings available. The Power Efficiency Corporation energy saving estimate calculator indicated a significant energy reduction potential. Following the Motor Efficiency Controller with E-Save Technology® installation, additional data was collected to determine the actual energy savings.

The Power Efficiency Corporation Motor Efficiency Controller reduced the kW required over 37%. Refer to the kW graph below:

**50 HP Granulator Baseline vs. Motor Efficiency Controller with E-Save Technology®**



kW avg. w/o Energy Savings (Baseline) 5.69	kW avg. with Energy Savings 3.54	kW Average Savings 2.15
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\* The Power Meter used is a Dent Instruments Elitepro Recording Poly Phase PowerMeter.

**Application:** Grinding Room Granulator  
**Motor Size:** 50HP  
**Average Savings:** 37%\*  
**Annual Savings:** \$1,597  
**Power Rate:** \$0.085/kWh  
**Annual kWh Saved:** 18,792 kWh  
**Operating Hours:** 23 hrs / 7days  
**Annual CO2 Reduction:** 15 tons  
**Internal Rate of Return:** 112%

\* Typically 20-40%

**Expected Product Life Savings**

**Product Life:** 15 years  
**kWh Savings:** 281,880kWh  
**Cost Savings:** \$23,955\*  
**CO2 Reduction:** 218 tons

\* Expected life cost savings is based on a 5% annual increase in cost of power

**BENEFITS**

**ENERGY SAVINGS**

- Optimizes energy efficiency
- Qualifies for utility rebates
- Environmentally friendly

**MOTOR CONTROLLER**

- Solid state motor controller
- Electronic overload protection
- Soft start functionality

**REDUCED MAINTENANCE**

- Extends motor life
- Decreases stress on mechanical systems
- Easy to install and configure