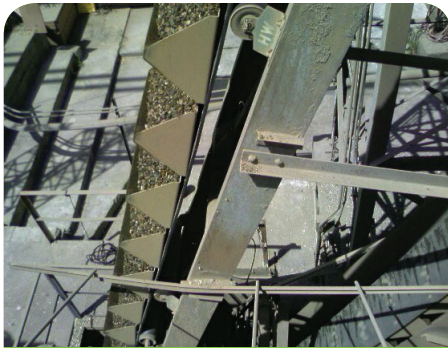




**E-SAVE**  
TECHNOLOGY

# case study: BUCKET ELEVATOR

## Ready Mix Plant



Ready Mix Plant  
California

Application: Bucket Elevator

Motor Size: 40HP

Average Savings: 7.3%

Annual Savings: \$544

Power Rate: \$0.20/kWh

Annual kWh Saved: 2,720 kWh

Operating Hours: 16 hrs / 7days

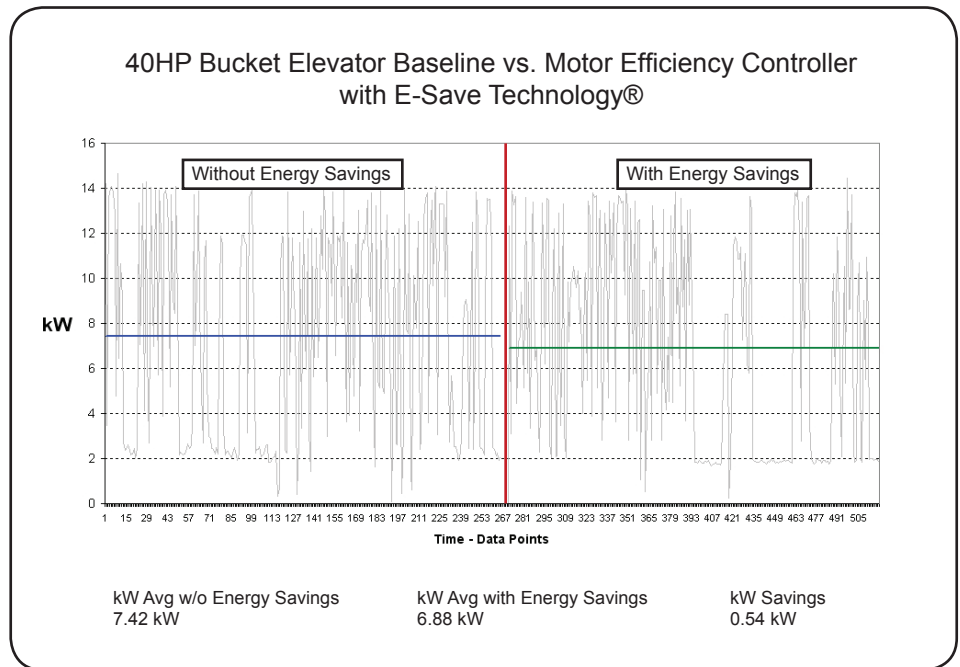
Annual CO2 Reduction: 2.1 tons

Internal Rate of Return: 74%

### TEST SUMMARY

A 40 HP Power Efficiency Corporation Motor Efficiency Controller was installed on a bucket elevator motor at a ready mix plant in California for reducing energy consumption, electricity costs, and the 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 7.3%. Refer to the kW graph below:



\* The Power Meter used is a Dent Instruments Elitepro Recording Poly Phase PowerMeter.

### Expected Product Life Savings

Product Life: 15 years  
kWh Savings: 40,800 kWh  
Cost Savings: \$11,739\*  
CO2 Reduction: 32 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