

EEM 1

High Efficiency Electric Motors

Manchester CSD

Electric Rate: \$0.080

Present Condition:

In the existing building there are motors which are not energy efficient. These motors were either installed with the original equipment or replaced many years back as part of system maintenance and are of standard efficiencies.

Proposed EEM:

This estimate shows the cost savings associated with the replacement of the motors only. In most cases, the entire air handling unit, fan or pump should be replaced. An independent survey of these systems should be provided to specify a replacement of these systems.

Replace the existing standard efficiency motors with high efficiency motors. High efficiency motors generate less heat (the cause of inefficiency) because of better construction. These motors contain more copper and iron as well as better insulation when compared to standard efficiency motors.

Summary:

Construction Cost:	\$5,195
Estimated Useful Life:	30 Years
Maintenance Costs Effect (+/-)	0
Estimated Salvage or Disposal Costs	0

Non-Interactive Savings:

Estimated Annual Electric Savings	6,714 KWH
Estimated Annual Cost Savings	\$537
Simple Payback	9.7 Years