

Conclusion and Recommendations

After reviewing the findings in the above analysis, the addition of a cogeneration system, which will produce heating, cooling, and power for the University Ridge complex, would offer many advantages as well as a few disadvantages over the current configuration. The biggest advantages are the reduction of emissions as compared to the national grid, reduced energy costs, and a payback period within a reasonable time frame. However, all of these pros come at a drawback in that the cogeneration system has a higher first cost and requires more maintenance to maintain reliable operation.

In the end, the benefits greatly outweigh the negatives and is an environmentally conscious decision as well as a fiscally sound solution.