

Having Your Ice Cream and Energy Savings Too A Manufacturing Case Study

Burton Energy Group is proud to have been involved with one of the most remarkable energy savings projects ever completed in Southern California. Completed in 2015, the project resulted in a 59% reduction in annual electricity consumption while simultaneously improving lighting, comfort, and productivity. The Thrifty Ice Cream Plant in El Monte, California (owned by Rite Aid) is the location of this project, and their annual energy costs have been reduced by more than 50% while simultaneously enjoying approximately 20%+ increase in manufacturing capacity.

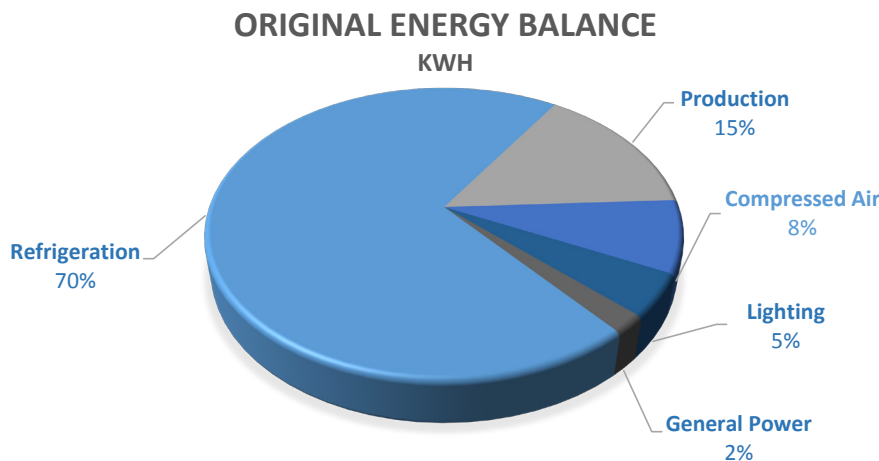
Project Overview:

- Estimated simple payback: 1.5 years
- Plant production capacity increase: 20%+
- Utility rebates attained: **\$1,282,086**

Actual Measured Energy Savings:

- 59%**
- Annual electricity consumption savings: 7,879,000 kWh
- Peak power demand savings: 1,002 kW

A comprehensive energy audit was performed by Burton Energy Group in late 2013. Savings of over 43% of annual electric energy consumption were identified with a corresponding simple payback of less than 2 years including utility rebates. Projects that were selected for funding and then implemented included a complete re-design and re-build of the ammonia refrigeration plant, lighting improvements, lighting controls improvements, installation of a new more efficient HVAC system for the production areas, and improved insulation and staging in the product storage and buffer areas.



Continuous improvements in design and construction of the ammonia refrigeration plant project were primarily responsible for actual measured savings exceeding original estimates. Burton continued to support Thrifty and Rite Aid after the initial audit with project management services for selected measures. Burton was actively involved with SCE and Lockheed Martin Energy Services in attaining the utility rebate for the project.

Contact us today to discuss how you can reduce operating costs while meeting sustainability goals.