

## Australian Tallow Producers Rewarded Hundreds of Thousands in Boiler and Steam System Upgrade



**Equipment  
Upgrade**

**Boiler and Steam System**

**Annual GAS  
Savings**

**\$ 250,000+**

**Certificate  
Value**

**\$ 300,000**

**Project Payback  
Period**

**11 months**

**Equipment  
Partner**

**Beam Energy Labs**

### PROJECT OVERVIEW

Every year, Australian Tallow Producers recycles millions of kilograms of perishable material generated by the livestock and poultry, meat/poultry processing. Converting this material into valuable ingredients for edible fats, various soaps, cosmetics, explosives, toothpaste, pharmaceuticals, leather, textiles and lubricants and bio diesel. The majority of finished products are used in the feed industry in the form of high-energy fats and high-quality protein ingredients that supplement the diet and enable efficient production of beef, veal, pork, poultry, fish, eggs and milk.

### PROJECT CHALLENGES

- Remove dated inefficient machinery
- Installation of new machinery with minimal interruption
- Reduce Gas Consumption
- The ongoing cost of inefficient gas consumption, and maintenance
- Rising costs associated with increasing gas prices
- large complex site
- Gas is not only imported, but also exported to a neighbouring facility
- Detailed production flows varying degrees of quality in production schedule

### PROJECT SOLUTIONS

- Installation of boiler economiser, blow-down heat recovery, and oxygen trim control
- Flash steam heat recovery
- Steam trap improvements
- Working with the client and the service provider to understand the process
- Maintaining consistent communication with the Essential Services Commission to ensure eligibility.
- Annual gas was reduced by 15.4% and 1,123 tonnes of carbon admissions averted per annum