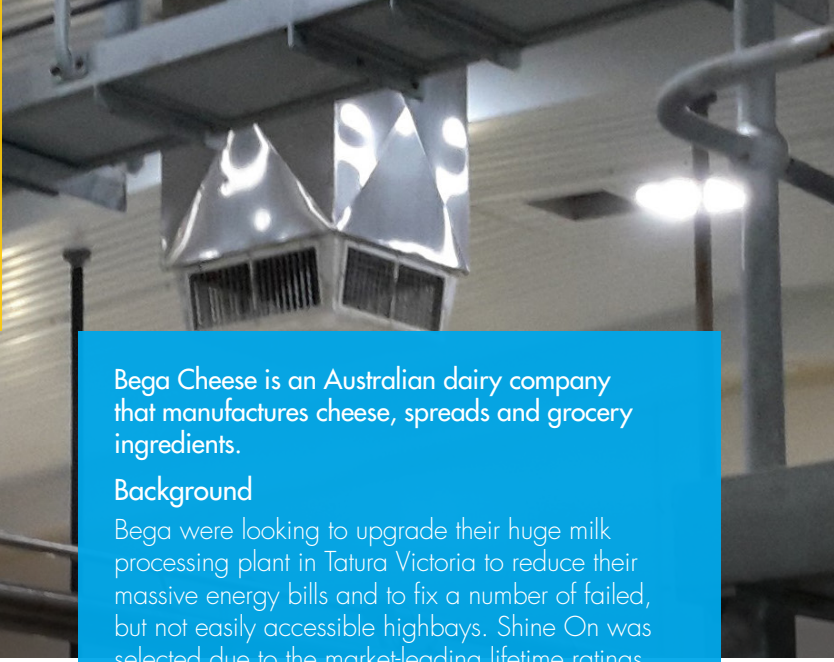


Case study: Bega Cheese



Energy: LED



Industry: Industrial

Results

Energy savings	84% reduction
Payback period	13 months
Annual lighting energy saving	1,498,273 kWh
First year return on investment	90%
Annual greenhouse gas reduction	1,768 tonnes
Total 10 year saving	\$3,562,559

Energy efficient products used

Product	Quantity
Shine On H-Flux Mk4 LED Highbay (sensored)	149
Shine On Stellar Mk2 LED Canopy (sensored)	221
Shine On Orbon Mk3 LED Floodlight	167

Bega Cheese is an Australian dairy company that manufactures cheese, spreads and grocery ingredients.

Background

Bega were looking to upgrade their huge milk processing plant in Tatura Victoria to reduce their massive energy bills and to fix a number of failed, but not easily accessible highbays. Shine On was selected due to the market-leading lifetime ratings and warranties of our highbays and canopy lights and our unrivalled experience installing LED in food manufacturing facilities.

The project

Before recommending a solution, we undertook a number of lux simulations in key areas to ensure we exceeded AS1680 with the lowest possible wattage light. Our solution involved upgrading the old 400 watt metal halides in the food production areas to our 120 watt HACCP certified LED Canopy and in all other areas to our 97 watt H-Flux Mk4 LED Highbay. All floodlights were upgraded to various wattages of our Orbon Mk3 Floodlight. The interior lights included motion sensors to ensure they were only on when the areas were occupied, further increasing savings.

Results

Following installation the site now saves 84% on its lighting consumption, which will deliver 10 year savings of over \$3.5 million and paid back within only 13 months!

"Right from the get-go the guys came down here and they knew exactly what they were talking about. I was really impressed with how much knowledge they had and how quick they were to start things moving.

They made some great suggestions which we took on board and any issues that we had they were onto it straight away".

Alex Wayman
Environmental Officer, Bega Cheese

Energy savings (kWh)

