



Ref: CS-CARLSBERG
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Carlsberg

Background

Carlsberg opened their plant in Israel around five years ago. Their brewery, equipped with today's latest technologies, has a 12,600 sqm production floor and operates three shifts 5.5 days a week.

After detailed analyses and testing of the Metrolight lighting systems and SuperHID electronic ballasts, Carlsberg decided to move from traditional 400W magnetic ballast to electronic ballast, and to integrate the lighting installation with other building automation systems in the brewery. The Metrolight solution was installed in the Carlsberg plant in 2005.

This initial installation includes the Metrolight SuperHID 320W ballast and 320W MH lamp set to 240W instead of 400W magnetic ballast. Their next step will be full a integration with the existing facility management control systems.

Results: 46% energy savings without compromising light output and before implementation of intelligent control and dimming.

	Magnetic	SuperHID
Number of lamps	300	300
Lamp wattage / Setup	400W	320W / 240W
Ballast type	Magnetic	SuperHID-320MH
Light output FC (lux)	FC 33 (350 lx)	FC 33 (350 lx)
Price per KWH	\$0.087	\$0.087
Annual power consumption KWH	949,835	515,336
Annual cost (US\$)	\$82,636	\$44,834
10 years maintenance cost ⁽¹⁾ (US\$)	\$80,736	\$40,121
Total 10 years cost (US\$)	\$907,092	\$489,550
Total 10 years saving		\$417,540

Summary of Results

Notes: (1) Relamping every 2 years with magnetic ballast and 5 years with SuperHID