

Saving energy with cold store LED lights

Matt Hill
Organics Project Manager
CO2Sense Yorkshire

matt.hill@CO2Sense.org.uk

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Project Part-Financed
by the European Union
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Development Fund



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The partner



- Major UK food producer
- Supplier to the biggest UK retailers, e.g. McDonalds
- Already recognised for carbon reduction



The Situation



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The Problems



- 36 x 400W Sodium lamp fittings
- These lamps also heated up the cold store
- Each lamp used 5,723kWh of electricity a year
- The lights took ages to come on
- The light quality was poor

The solution



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The statistics



- 36 x 72W LED light fittings
- Negligible heat output – brighter in the cold
- Each lamp uses 841KWh of electricity a year
- Lights switch on in 100ns
- Improved light quality allows easier label reading



The payback



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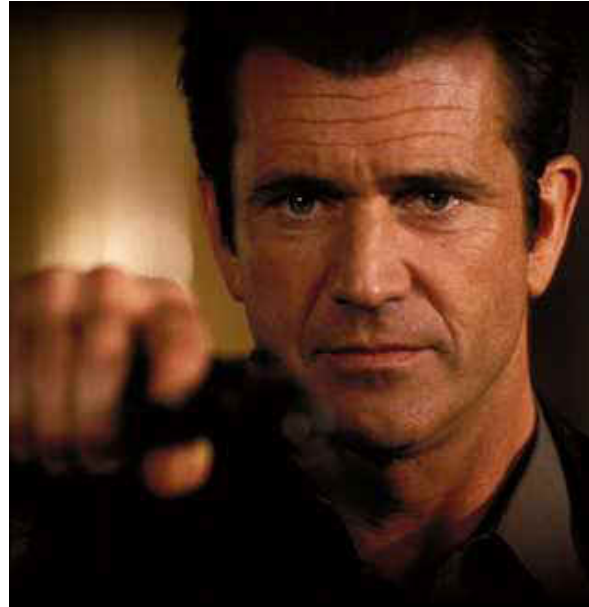
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The payback



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The payback



- At 10p/KWh, LED lights save £18,000 a year
- Capital investment was £34,000
- This is a 1.9year payback period

In summary



- McCain Foods had dull, expensive cold store lighting
- They replaced sodium lamps with LED units
- They invested £34k to save £18k a year
- They now have bright, cheap cold store lighting