

# Case study, The Musko tunnel, Sweden

The Musko tunnel which links Musko Island with the main land med was opened for traffic in 1962 and was the world's first unlined tunnel below sea level.

The Musko tunnel is 2895 meters long and reaches about 40 meters below sea level. The tunnel is one of the longest in the area around Stockholm.

Vagverket (The Swedish Road Authority) which maintains and services the tunnel has very tough environmental standards to live up to. One of their projects was to reduce carbon dioxide emissions annually by 130 000 metric tonnes between the years 2002-2005. Installing Light Eco in the Musko tunnel contributed to an annual reduction of 159 metric tonnes.

The Return Of Investment was measured to just under 3 years by logging the energy consumption before and after the installation. This means it was a very good deal not only for the environment but as a cost saving investment as well.



Annual saving:	SEK 114 680
Cost of investment:	SEK 340 200
Return Of Investment:	35,6 months
Annual Return Of Investment:	34%
Annual energy saving:	192 448 kWh
Annual reduction in Co2:	159 tonnes

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