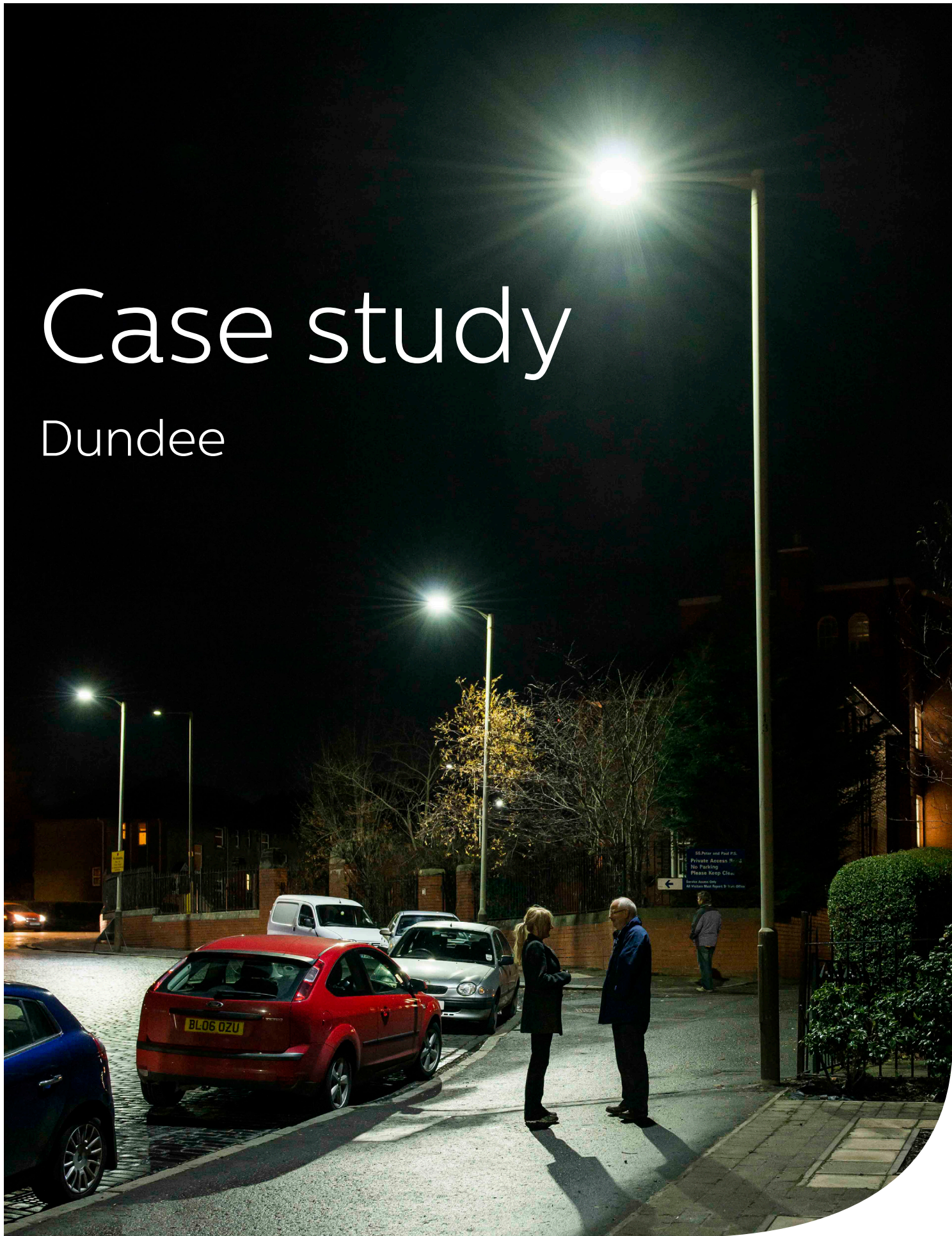


Case study

Dundee



Location | Dundee
Philips Lighting | Mini Luma



PHILIPS




“The light quality delivered by the LED street lighting installation has contributed to an increased sense of safety and security.”

Lindsay McGregor Street Lighting Partnership Manager – Dundee City Council

Philips LED lighting creates a welcoming environment and delivers significant energy and cost savings for Dundee Council.



The LED solution installed has provided superior light quality that has helped to enhance safety and security.

Fast Facts

- Customer**
Dundee City Council
- Location**
Broughty Ferry, Byron Street & Albany Terrace, Dundee
- Philips Products**
Mini Luma
- Project Partner**
Tayside Contracts and Perth & Kinross Council
- Lighting Class**
S3

Background

Dundee City Council and Perth & Kinross Council have transformed residential and urban areas across Tayside with new street lighting. The LED solution installed has not only helped to reduce energy consumption and maintenance costs, but has provided superior light quality that has helped to enhance safety and security.

The Street Lighting Partnership, an integrated organisation comprising of Tayside Contracts, Dundee City and Perth & Kinross councils, operates and maintains the street lighting in this area on behalf of the Councils. The Street Lighting Partnership has total responsibility for design, maintenance and any renewal programmes within the council boundaries of Dundee City and Perth & Kinross.

The Solution

Like many Local Authorities, the Councils are under pressure to reduce energy consumption and meet commitments on carbon reduction, whilst ensuring streets and roads remain appropriately lit. To help achieve this, a number of locations in Tayside were identified where replacing ageing stock would result in considerable energy savings.

A total of 519 Philips Mini Luma luminaires have already replaced 135w SOX lanterns in Dundee on both residential bus routes and priority traffic routes and 770 luminaires are about to be installed in Perth and Kinross. The new white light solution has helped to enhance the feeling of safety and security by improving light quality at night, whilst also delivering considerable energy and cost savings. In particular light spill, obtrusive light and light pollution have all been significantly reduced.

The flexibility of the Mini Luma has helped to deliver the required lighting levels and uniformity, meeting all relevant lighting standards, as the luminaire is available in a range of standard LED configurations. The modular concept of REVOLED within Mini Luma allows for the lighting scheme to be easily adapted to meet the exact requirements thereby maximising energy savings.

Life Cycle Savings

The LED upgrade has resulted in significant energy and carbon savings. Annual energy savings of 665,447kWh are expected, delivering savings of £73,199 a year. This represents an energy savings of 71% and an impressive carbon reduction of 6,728 tonnes of CO2 over the 20 year life of the luminaires. Furthermore, the long lifetime of 100,000 hours will have a positive impact on maintenance costs.

The project was realised as a result of funding secured from Salix, which supports the public sector with loans for energy efficiency projects. As Lindsay McGregor, Dundee City Council explains; “In these austere times of having to make hard financial decisions, the availability of Salix funding at 0% interest has allowed the Council to tap into an alternative spend to save funding to carry out a project which would otherwise not have gone ahead. The 71% reduction in electricity achieved by the mini Luma LED lantern twined with the interest free loan savings, makes the project a win/win situation and has helped us to accelerate our investment programmes to reduce our carbon emissions and running costs.” To secure the funding a payback period of less than 8 years has been achieved.

If you would like to see more projects or have an enquiry, please visit us at www.philips.co.uk/lighting or email: lighting.uk@philips.com



Contact details:

Guildford
Philips Lighting
Philips Centre
Guildford Business Park
Guildford, GU2 8XH
Tel: 0845 601 1283

Dublin
Philips Electronics Ireland Ltd
Philips House
South County Business Park
Leopardstown
Dublin 18
Tel: +353 1 764 0000

Email: lighting.uk@philips.com
www.philips.co.uk/lighting



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