

## Case Study - Upgrade of Public Access Lighting, Pearse House

### Upgrade of Lighting to LEDs

Location: Block E, Pearse House  
Pearse Street, Dublin 2

Savings: 5,849 kWh or €2,199/yr

Funding: SEAI, Dublin City Council

Completed: August 2016

€2,199

total annual savings on  
lighting

### Project Background

Pearse House is located off Pearse Street in Dublin 2. There are 345 social housing units spread across 17 blocks, and the complex is owned by Dublin City Council. Public access lighting in Pearse House consumes an average of 60,000 kWh per year, which amounts to a total lighting bill of €25,000 per year. Block E of Pearse House has 28 units and the public access lighting associated with this block was

consuming just over 7,000 kWh or €3,000 per year. This project focused on upgrading the public access lighting in this block to energy-efficient LEDs. The work was carried out through the Sustainable Energy Authority of Ireland's Better Energy Communities programme, and the project also included lighting upgrades in Irishtown Sports Stadium and St Andrew's Resource Centre.

"We are delighted with the savings achieved from Pearse House. The lighting upgrades were carried out in a matter of days, and in addition to the cost and energy savings associated with this work, residents will also benefit from improved, brighter lighting and better security."

Céline Reilly,  
Executive Manager, Dublin City Council

### Results

Annual Electricity Savings	5,849 kilowatt hours
Annual Cost Savings	€2,199
Project Cost	€7,384
Payback	2.4 years

### Project description

On behalf of Dublin City Council, Codema prepared an application in 2016 for funding through the Sustainable Energy Authority of Ireland's Better Energy Communities programme to upgrade all the public access lighting in Block E of Pearse House to energy-efficient LEDs. The project was approved by SEAI in June 2016 as a joint application involving Pearse House, Irishtown Stadium and St Andrew's Resource Centre.

As part of this project, Codema carried out full Measurement and Verification (M&V) of the works in Pearse House, which involved both before and after measurements of energy consumed on site. Codema also installed temporary monitoring equipment to ensure accurate power calculations.

The work was carried out by Watt Less Ltd, who upgraded all the public access lighting in Block E to energy-efficient LEDs in August 2016.

SEAI provided €2,215 in funding through the BEC programme, so the total cost to Dublin City Council was €5,169 with a payback of 2.4 years.

Dublin City Council will look to replicate this project across many of its other social housing blocks in 2017.

#### Benefits to the tenants of Block E, Pearse House:

Improved, brighter lighting



Better security



Less maintenance



Less lighting faults

