

Merseyside Fire & Rescue Service has been working with Salix Finance since 2004 to deliver over £780,000 in energy efficiency projects. Using Salix's invest-to-save model, they have been able to reduce their energy bills by an estimated £184k a year.



Project overview

The Merseyside Marine Rescue Unit is one of the many sites which Merseyside Fire & Rescue Service (MF&RS) have focused their energy efficiency efforts. The unit sits on a pontoon on the Mersey and is operated by staff 24 hours a day, 365 days a year. This exposed position means there isn't a mains gas or oil connection onto the site and so all heating into the building is electric. To keep up with their energy demands in this unique environment, heating and lighting systems were upgraded with energy efficient technologies including the addition of greater control measures. This has allowed MF&RS to reduce their energy usage at this site by an estimated 57%.

MF&RS were able to complete the works by utilising their Salix Recycling Fund. In partnership with Salix, MF&RS has delivered 43 energy efficiency projects including £325,000 in lighting upgrades, £70,000 in improved boilers, and £83,000 of building energy management systems (BEMS). Combined, these projects are reducing greenhouse gas emissions by an estimated 844 tCO₂e* annually.



“The Recycling Fund has allowed us to improve the energy efficiency of buildings whilst significantly improving the working environment with better lighting and heating. One of the unplanned additional benefits from engaging with Salix has also been real budget savings on the usual ongoing maintenance costs.”

Garry Bennett, Fire Fighter Ops Estate Team, Merseyside Fire and Rescue Service

Estimated savings achieved by Merseyside Fire & Rescue Authority*

Recycling Fund Size	Annual £ Savings	Total Project Value	Fund Started
£300,000	£184,511	£780,613	2004
Salix Contribution	Lifetime £ Savings	Annual CO ₂ e	Average Project Payback
£150,000	£2,323,908	844 tonnes	4.4 years

For more information on funding, please contact info@salixfinance.co.uk

*Calculated using emissions factors published by the Government for carbon footprinting purposes.

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SALIX

SOLVING ENERGY EFFICIENCY FINANCE IN THE PUBLIC SECTOR



Department for
Business, Energy
& Industrial Strategy

Working with Salix

Merseyside Fire & Rescue Service

MF&RS is the fire and rescue service covering 999 and fire services across Merseyside. This includes the marine rescue unit which provides a rapid rescue service across 60 miles of coastline along the Mersey estuary.

The round the clock nature of the MF&RS means there is a high demand for lighting and heating. MF&RS now benefit from reduced energy and maintenance costs. These savings can be put towards their operational response to the Merseyside Community.

Technologies Installed by MF&RS

Building Fabric Insulation

Building Energy Management Systems

Lighting Controls

LED Lighting

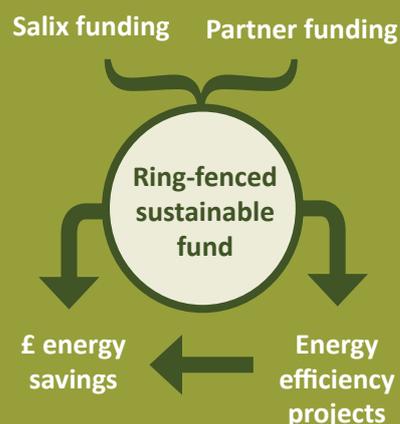
Heating Controls

Heating Upgrades

Valve and Pipework Insulation

The Recycling Fund

A long-term ring-fenced fund held by the public body where financial savings are reinvested by the public sector body year on year to fund further energy efficiency projects.



How Salix can help emergency services

- ✓ Interest-free finance for energy efficiency projects to reduce energy and maintenance costs
- ✓ Over 100 technologies are supported by Salix for installation
- ✓ A dedicated support officer is assigned to guide you from project development to completion
- ✓ Salix Knowledge Share is available on the Salix website containing best practice examples through case studies, project knowledge slides as well as tools to check savings
- ✓ Salix provide technical checks on all energy efficiency applications
- ✓ To learn more Salix host regional meetings and technical workshops throughout the year

Heating Controls in Appliance Bays

Like many blue-light responders, MF&RS have a large fleet of emergency vehicles. The appliance bays the vehicles are stored in were often heated throughout the day despite the doors being open. MF&RS upgraded their heating system by installing sensors to ensure that the heating will switch off when the doors are open.

This trial project is predicted to reduce energy use on site by 49%. MF&RS plan to roll out this scheme across their 23 fire stations.

Site-wide LED Lighting Installation

Working with their consultant, MF&RS have installed LED lighting in 28 of their 34 buildings and are planning to complete the roll-out over the coming years. LED Lighting and controls projects across their estate have not only saved the service money on their energy bills but have also improved the working environment for their office and front-line staff.

For more information or to apply please contact the Emergency Services Team to find out how Salix can help you improve your energy efficiency on info@salixfinance.co.uk or call 0203 102 6900