

CREATING  
A CLIMATE  
FOR GROWTH

**PRIVA**

Future-Proofing

**> BRITAIN'S HISTORIC BUILDINGS**







**ARE YOU STRUGGLING TO  
FUTURE-PROOF THE LISTED  
BUILDINGS IN YOUR CARE?**

Protecting the fabric of historic or listed buildings is undoubtedly your ultimate priority. But, did you know it is possible to future-proof your estate with the same control-based technologies found in many modern buildings? Where integrated, this technology enables you to keep energy consumption under control. It also helps you to protect and care for your estate through greater control of the indoor climate of your buildings.



## **DID YOU KNOW IT'S POSSIBLE TO MAINTAIN THE FABRIC OF YOUR HISTORIC BUILDINGS – AND STILL BENEFIT FROM MODERN TECHNOLOGY?**

Priva's building control technologies are proven to work in harmony with your building – and not against it. When you or your consulting engineers specify our equipment, you can be sure it is proven to meet three essential characteristics: It is unobtrusive, non-disruptive and flexible.



## **CAN YOU IMAGINE HAVING PRECISE CONTROL OF THE INDOOR CLIMATE OF YOUR HISTORIC BUILDINGS?**

These days, temperature, humidity, air-handling and even lighting can all be controlled and managed centrally and intelligently. Remote access and building performance analysis ensure maximum operational efficiencies and visibility of data. In fact, custodians of some of the world's most historic buildings rely upon Priva technology to manage their estates. With our network of approved Priva Partners, we provide specialist technical and engineering support that helps to manage the internal environment of special spaces.





A small image of the Rosslyn Chapel spire is visible on the left side of the slide, partially obscured by the green background.

# CONSERVATION AND RESTORATION AT ROSSLYN CHAPEL

Rosslyn Chapel, which was built between 1446 and 1484, is a Category A listed building and Scheduled Ancient Monument. Too much heat and humidity can have a negative effect on the historic features and artefacts housed within the Chapel. So, the trick is getting temperature and humidity just right; a target ably met using a Priva building management system.

## PROJECT OUTCOMES

- > The internal environment is maintained within precisely defined parameters.
- > Sensors measure temperature and humidity – negating the need for wiring and trunking.
- > Our system is unobtrusive – so no damage was caused to the fabric of the building.
- > Energy savings and carbon reduction are now displayed on a screen located in the visitor centre.
- > The system controls the biomass plant; helping to boost on-site sustainability.





A photograph of the Marischal College building, a historic stone structure with a prominent spire, set against a clear blue sky. The building is partially obscured by a dark grey diagonal shape that serves as a background for the text.

# MARISCHAL COLLEGE A SHOWCASE FOR SUSTAINABILITY

Occupying an imposing position that commands the Aberdeen skyline, Marischal College has origins dating back to 1593. Aberdeen City Council's relocation to the site is a showcase project for sustainability and one that features Priva building management technology at its core.

## PROJECT OUTCOMES

- > Control of two back up gas boilers to support the biomass boiler.
- > Heating, cooling and air-handling is controlled and monitored by Priva's system.
- > Incoming electricity, gas and water metering are monitored.
- > Text alerts/system status updates are sent directly to the maintenance engineer.





A large orange graphic element on the left side of the page, with a small portion of St Paul's Cathedral visible on the far left edge. The cathedral's dome and architectural details are partially visible against a light blue sky.

## IMPROVING EFFICIENCY **AND PLANT RELIABILITY** AT ST PAUL'S CATHEDRAL

St Paul's Cathedral is one of Britain's most iconic buildings. The project brief was to improve energy efficiency and plant reliability through the installation of a remote-access Priva building management system (BMS). Our user-friendly technology offers a solution that combines reliability, scalability and system flexibility for future modifications.

### PROJECT OUTCOMES

- > Existing IT network used to connect to the BMS.
- > Flexible, scalable and user-friendly solution.
- > Remote system access allows for easy resolution of plant issues.
- > Site-wide monitoring and targeting of energy inefficiencies.







# RETROFIT BRINGS PERFORMANCE AND COST BENEFITS TO WESTMINSTER ABBEY

Westminster Abbey, one of London's oldest and historically most important buildings, is using Priva's control technology. It replaces an outdated 1990's system – and brings the building's heating, ventilation and air handling functions into the 21st century.

## PROJECT OUTCOMES

- > Temperature control kept at a constant 20°C, with humidity at 50% to preserve artefacts.
- > Use of existing temperature sensors and sensor cabling saved Abbey a 'small fortune'.
- > Non-disruptive technology preserved fabric of 900 year old building.
- > Ethernet connectivity meant no need for a new controls network.
- > Installation was completed in two weeks without inconveniencing the Abbey's visitors.





A photograph of a historic building with a prominent spire, likely Marlborough College, is visible on the left side of the slide. The building has a red-tiled roof and white architectural details. The background of the slide is a solid brown color.

# **TRANSFORMING ENERGY USE AT MARLBOROUGH COLLEGE**

Marlborough College dates back to 1843. The challenge was to streamline its energy management and improve efficiency. This involved the replacement of its old stand-alone series of building controllers with a Priva internet-compatible, remote-access Building Management System (BMS).

## **PROJECT OUTCOMES**

- > Delicate walls, ceilings and floors were safeguarded by re-use of cabling.
- > New equipment was unobtrusive – and caused no visual impact.
- > Re-use of existing cabling meant minimum disruption to the school.
- > Site-wide monitoring and targeting of energy inefficiencies made possible.







# **ACCURATE HEATING CONTROL AT ST BEUNO'S JESUIT SPIRITUALITY CENTRE**

Upgrading of the heating-control system at the C19th St Beuno's Jesuit Spirituality Centre in North Wales is based on Priva's control technology. It has helped to improve the accuracy of heating control across the site and enhance accessibility with a user-friendly touchscreen.

## **PROJECT OUTCOMES**

- > Energy-efficient control of the heating system throughout the building.
- > A user-friendly touchscreen enables easy changes to heating times and temperature set-points.
- > Easy visibility of fault history, temperatures and the condition of heating/cooling equipment.
- > No need for separate time and temperature controllers.



NEW THEATRE ROYAL





# **THEATRE ROYAL BATH STREAMLINES ITS ENERGY MANAGEMENT STRATEGY**

The Theatre Royal Bath began life in 1805. Its owners sought to streamline its energy management and reduce carbon emissions by 30% with the help of Priva building management technology – but it faced the challenges of historical building conservation and a complex legacy system.

## **PROJECT OUTCOMES**

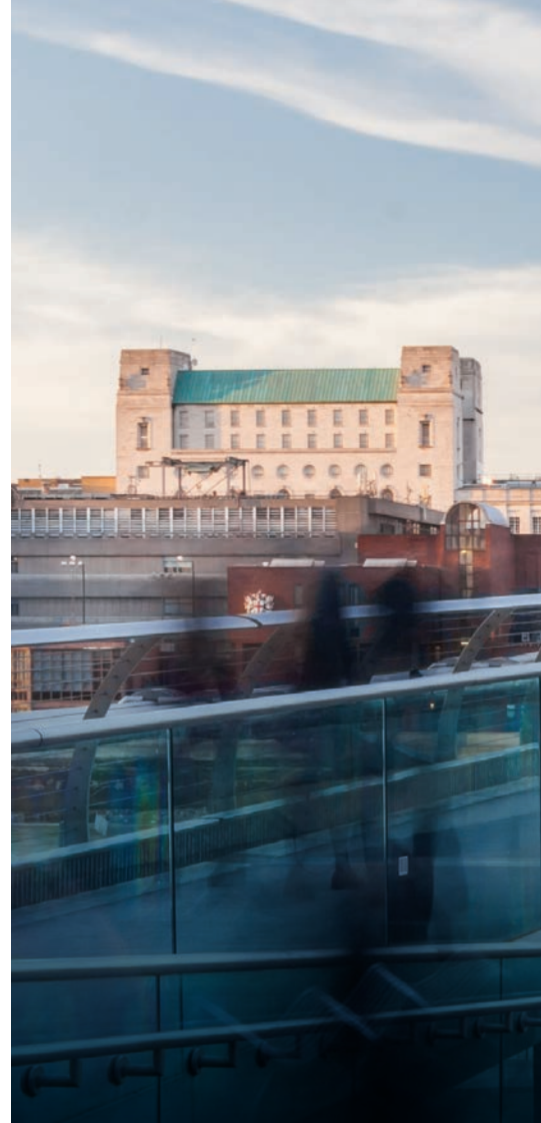
- > Streamlining and centralisation of building services functions.
- > Control and monitoring of heating and ventilation across the entire complex.
- > Air temperature and ventilation can be adjusted according to audience feedback.
- > Sources of energy waste are easily identified and resolved.



**To find out more about the ways our control solutions can protect the fabric of the historic or listed buildings in your care, please get in touch.**

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