

RBS World Headquarters, Gogarburn



RSP were commissioned 2007 to produce a strategic energy review of the RBS HQ building at Gogarburn on the outskirts of Edinburgh. The project primarily reviewed available renewable technologies which could be incorporated within the site, and as part of this process, investigated energy efficiency measures.

The energy review highlighted opportunities for saving energy through improved controls of electrical & HVAC plant, including:

- Recommissioning of mechanical services;
- Improvements in control strategy
- Adjustment of control set points;
- Replacement of poorly operating plant to more energy efficient options.

On completion of the energy review the recommended options were incorporated and a 30% energy reduction was achieved within the first year.

RSP have also recently been commissioned to progress a regeneration project within the building which is scheduled to be completed 2016. This regeneration project will also include a review potential opportunities for the integration of renewable energy technologies to reduce the site's energy consumption and carbon emissions which include the following:

- Solar thermal system to reduce DHW energy consumption;
- Solar photovoltaic to reduce base electrical load of the main building;
- Ground source heat pump to provide the heat load to areas with underfloor heating that can be isolated from the main energy infrastructure;
- Wind turbines on a larger site basis along with smaller options for building by building integration;
- Incorporation of LED lighting throughout.