



# Johnson Controls Savastat Energy Control Comparative Field Trial



Johnson Controls

Barclays Bank  
Fleetway House  
Farringdon Street  
London



This office block in the City of London was selected by Johnson Controls as a suitable site to measure the energy saving performance of SAVASTAT Load Compensation boiler controls.

Savastat controls fitted to 2 Allen Ygnis 3,500,000 BTU/hr forced draught gas boilers. (the 3<sup>rd</sup> smaller boiler is permanently off) Burner activity was recorded daily with the Savastat ON and OFF line on alternate days for periods 26<sup>th</sup> Jan to 6<sup>th</sup> Feb and from 15<sup>th</sup> to 31<sup>st</sup> March. Building security staff collected this data at 7am each day.

**A fuel saving of 14.8% was recorded during the first period.**

However, the data showed that part way into the trial one boiler had gone down and it was decided that the boilers should be checked and a further trial conducted.

**During this second period a fuel saving of 15.15% was confirmed as the data below.**

Before finalising this report an engineer visited the site on 6<sup>th</sup> May to check and confirm the operation of these boilers. Both boilers were live but only one was needed to maintain temperature. Over a 4 hour period the flow temperature and burner On and Off cycles were monitored. With Savastat in control the overall burn time (fuel consumption) was reduced by 21% as illustrated by the following cycle comparison:

Savastat Off: Burn 12 in 22 54.5%

Savastat On: Burn 15 in 35 42.9%

**Difference equals saving of 21%**

