

Appendix B: Case Study #3: Winchester House - London

28 energy and water conservation projects



	Projects ¹	Projects	Energy Savings (kWh)	Water Savings (liters)
Lighting Improvements	Central lighting control system upgrades	18	1,467,972	-
	High efficiency lighting fixtures (4)			
	Installation of high efficiency lamps (6)			
	Reduction of light levels (7)			
Electricity Distribution Systems	Consolidate Power Distribution Units	1	847,968	-
Water and Sewer Conservation Systems	Installation of low flow urinal water controls	1	-	1,724
Commissioning	RCx Optimization - BMS	8	4,095,781	-
	RCx Optimization - Chiller Plant			
	RCx Optimization - Fan Coil Units			
	RCx Optimization - Heating Plant			
	RCx Optimization - UPS Load Management			
	RCx Rescheduling - FCU System			
RCx Rescheduling - HVAC System (2)				
Total		28	6,411,721	1,724
2007 Baseline²			36,078,899	
Percent of Baseline			17.77%	



Building Data

Mid-rise Office with Trading Operations
 323,100 ft²
 1 Great Winchester Street,
 London, UK

Projects in Progress

Does not include following projects not yet completed: BAS replacement, Central AHU upgrades, Kitchen Management System, Voltage optimization, and (4) lighting improvements.

See footnote 1 on page 41.

¹ Project Data records and energy & water savings provided by CRES year ending 2012. Savings calculation validated by third party, Arup Engineering.

² Utility Data provided from Environmental Management System for year ending 2012. Data verified by third party, ERM Certification and Verification Services.

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