

Appendix B: Case Study #5: Theodor-Heuss-Allee - Frankfurt, Germany

24 energy and water projects



	Projects ¹	Projects	Energy Savings (kWh)	Water Savings (liters)
Heating, Ventilating, and Air Conditioning Upgrades	Retrofit of CRAC with VFD and controls	1	375,804	-
Electric Motors and Drives	AHU VFD Retrofit	1	583,697	-
Water and Sewer Conservation Systems	EcoLab Conveyor Dishwasher (3)	3	28,602	313
Commissioning	RCx Optimization - Chiller Plant	19	5,175,722	1,525
	RCx Optimization - Exhaust Systems			
	RCx Optimization - Filter Optimization			
	RCx Optimization - Heating Plant			
	RCx Optimization - Humidification (3)			
	RCx Rescheduling - HVAC System (4)			
	RCx Rescheduling - Lighting (2)			
	RCx Rescheduling - Temperature (6)			
Totals		24	6,163,824	1,838
2007 Baseline²			11,207,163	
Percent of Baseline			55.00%	



Building Data

Single Tenant Commercial Office
331,600 sqft.
Theodor-Heuss-Allee, Frankfurt,
Germany

Projects in Progress

Does not include following projects not yet completed: Replacement of heating systems, (8) lighting improvements, and (14) re-commissioning projects

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. Does not include following projects not yet completed: Replacement of heating systems, (8) lighting improvements, and (14) re-commissioning projects.

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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June 2014

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