

# Appendix B: Case Study #4: Alfred-Herrhausen-Allee (TZE) - Eschborn, Germany

17 energy and water projects



	Projects <sup>1</sup>	Projects	Energy Savings (kWh)	Water Savings (liters)
Heating, Ventilating, and Air Conditioning Upgrades	Control of bypass damper to reduce cooling load Replacement and repair of HVAC systems	2	18,175	0
Lighting Improvements	Installation of high efficiency lamps Lighting controls upgrades	4	202,760	0
Electricity Distribution Systems	Replace Power Distribution Units	1	-	0
Water and Sewer Conservation Systems	EcoLab Conveyer Dishwasher RCx Optimization - Humidification Water efficient plumbing fixtures	3	91,616	1,449
Commissioning	RCx Decommissioning - AHU System RCx Decommissioning - Heat Exchangers RCx Decommissioning - Power Distribution RCx Decommissioning - Transformers RCx Optimization - Heating Plant RCx Rescheduling - HVAC RCx Rescheduling - Ventilation System	7	6,542,329	0
<b>Totals</b>		<b>17</b>	<b>6,854,880</b>	<b>1,449</b>
<b>2007 Baseline<sup>2</sup></b>			<b>49,594,577</b>	
<b>Percent of Baseline address</b>			<b>13.82%</b>	



## Building Data

Single Tenant Commercial Office  
647,200 ft<sup>2</sup>  
[REDACTED]  
(TZE), Eschborn  
Germany

## Projects in Progress

Does not include following projects not yet completed: Chiller Free cooling system, Steam generation replacement, Heat Pump replacement, Terminal Unit upgrades, Electrical distribution upgrade, (2) lighting improvements, and (8) re-commissioning projects

See footnote 1 on page 41.

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

<sup>2</sup> 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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