



EXHIBIT 4

Energy Measure Useful Life Chart

<u>Measure</u>	<u>Location</u>	<u>Years</u>	
Lighting:			
CFL standard screw base	Interior	Remaining years between now and 2020	
	Exterior	3.80	
	Common space	1.00	
CFL - Specialty (See TRM definition)	Residential	6.80	
	Common space	1.30	
	Exterior	4.60	
CFL Fixture (pin-based, hard wired)	Interior	Remaining years between now and 2020	
	Exterior	Remaining years between now and 2020	
LED – Recessed down light luminaire	Residence	10.00	
LED – Integrated screw base (SSL)	Interior/Residence	20.00	
	Common Space	4.20	
LED – Energy Star Integrated screw base	Directional/Omnidirectional	Residential	
		Common Space	20.00
		Exterior	4.20
LED – Decorative	Residential	15.20	
	Common Space	14.00	
	Exterior	2.50	
LED Outdoor	Exterior	9.10	
	Pole/Arm Mounted and Roadway	18.00	
LED	Canopy	21.00	
LED	Parking Garage	8.00	

LED – Exit sign		7.00
Metal Halide – Pulse start	Interior/Exterior	15.00
High Pressure Sodium		15.00
De-Lamping (must be permanent, including removal of electrical sockets from the fixture)		15.00
T-8 High performance (and reduced wattage) from T-12 lighting		6.00
T-5 lighting		15.00
Occupancy Sensor		10.00
Advanced Lighting Design		15.00
Daylight Dimming		10.00
Electric Ballast		11.00
HVAC:		
Air Source Heat Pump (Energy Star split system)		18.00
Central Furnace High Efficiency Fan motor		18.00
Room Air Conditioner		12.00
PTHP		11.00
Central A/C (Energy Star)		18.00
High Efficiency Unitary A/C		15.00
High Efficiency electric water chiller		23.00
Dual Enthalpy economizer		10.00
Window A/C (Energy Star)		12.00
Ductless mini split system (Energy Star)		18.00
Electric Chiller		23.00
HE (Condensing) Gas Furnace (Residential size)		18.00
HE Gas Boiler \geq 85% AFUE <300 kBtu/h and 85% Et for units >300kBtu/h		20.00
High Efficiency PTAC		13.00
Programmable Thermostat		10.00
Variable Frequency Drive (VFD) \leq 10 HP		15.00
Duct Sealing		20.00
Heating Controls		15.00
Burner Replacement		10.00
Water Heaters:		
High Efficiency Gas/storage		13.00
Electric		13.00

Heat Pump Domestic Water Heater		10.00
Indirect storage		15.00
Solar		20.00
Tank temperature turn down		Not to exceed remaining life of existing unit
Insulation:		
Attic/ceiling/roof/wall		25.00
DHW tank wrap (electric DHW only)	Retrofit	5.00
	New install	13.00
DHW pipe insulation		15.00
Duct		20.00
Hydronic/steam distribution		20.00
Air Sealing		15.00
Advanced Power Strips (APS "smart strip")		4.00
DHW Temperature turn-down		4.00
High Efficiency Windows		25.00
Doors		15.00
Refrigerators		12.00
Freezers		12.00
Low Flow Shower Heads		10.00
Faucet Aerators		5.00
Clothes Washer/(dryer) gas/electric		14.00
Low-flow Toilet		20.00
Dehumidifier (Energy Star)		12.00
Pool Pump 2-speed/Variable		10.00
Energy Management System (EMS)		10.00
Energy Star Bathroom/Kitchen Fan		10.00
Occupancy Sensor Ventilation Control		10.00
Reduce Over Ventilation		10.00
Vending Machine Controls		10.00
Energy Star roofing asphalt shingles		10.00
Solar Thermal System		20.00
Solar Photovoltaic (PV)		25.00
Elevator Pump/motor		20.00

*Audit reports must identify the source used for determining the measure life for recommended measures not included in this chart.