

GEORGE MASON UNIVERSITY

Energy Savings Performance Contract I

FACILITY IMPROVEMENT MEASURES (FIMS)			GUARANTEED SAVINGS								OPERATIONS L&M	SAVINGS TOTAL
			ENERGY					WATER				
			KW	SAVINGS	KWH	SAVINGS	DKTH	SAVINGS	KGALS	SAVINGS		
LIGHTING UPGRADES	ARL	ARLINGTON CAMPUS	188	\$ 20,511.00	1,158,128	\$ 25,479.00	1,110	\$ 10,875.00	1,443	\$ 13,279.00	\$ 21,652.00	\$ 91,796.00
WATER & SEWER CONSERVATION	PW	PRINCE WILLIAM CAMPUS	14	\$ 1,511.00	268,044	\$ 9,382.00	2,139	\$ 20,960.00	2,017	\$ 14,119.00	\$ 565.00	\$ 46,537.00
HVAC: CHILLER REPLACEMENT CHCP	FFX	FAIRFAX	214	\$ 23,322.00	1,729,706	\$ 38,054.00	3,655	\$ 35,821.00	12,903	\$ 76,906.00	\$ 37,233.00	\$ 211,336.00
HVAC: THOMPSON CHILLERS & BOILERS	FFX	FAIRFAX	6	\$ 644.00	29,355	\$ 646.00	0	\$ -	1,023	\$ 6,098.00	\$ 1,130.00	\$ 8,518.00
HVAC: JOHNSON AC UNIT	FFX	FAIRFAX	26	\$ 2,823.00	286,220	\$ 6,297.00	2,397	\$ 23,486.00	1,990	\$ 11,860.00	\$ 3,790.00	\$ 48,256.00
HVAC: MASON AC UNIT	FFX	FAIRFAX	6	\$ 608.00	29,530	\$ 650.00	0	\$ -	36	\$ 215.00	\$ 569.00	\$ 2,042.00
HVAC: STEAM TRAP REPAIR REPLACEMENT	FFX	FAIRFAX	61	\$ 6,610.00	356,076	\$ 7,834.00	2,441	\$ 23,962.00	3,769	\$ 22,467.00	\$ 1,707.00	\$ 62,580.00
HVAC: HIGH EFFICIENCY MOTORS	FFX	FAIRFAX	83	\$ 9,007.00	688,200	\$ 15,140.00	3,085	\$ 30,238.00	1,515	\$ 9,030.00	\$ 4,322.00	\$ 67,737.00
HVAC: FIELD HOUSE AC UNIT	FFX	FAIRFAX	-1	\$ (115.00)	552,258	\$ 12,150.00	2,833	\$ 27,764.00	11,523	\$ 68,677.00	\$ 2,924.00	\$ 111,400.00
HVAC: HOT WATER HEATER REPLACEMENT	FFX	FAIRFAX	32	\$ 3,432.00	608,954	\$ 13,397.00	4,539	\$ 44,482.00	6,876	\$ 40,985.00	\$ 3,828.00	\$ 106,124.00
HVAC: SCIENCE & TECH I & II CHILLER REPLACEMENT	FFX	FAIRFAX	53	\$ 5,807.00	383,328	\$ 8,433.00	618	\$ 6,054.00	7,095	\$ 42,290.00	\$ 5,869.00	\$ 68,453.00
HVAC: DAMPER REPAIR & REPLACEMENT	FFX	FAIRFAX	635	\$ 69,213.00	5,562,961	\$ 122,385.00	46,977	\$ 460,379.00	13,849	\$ 82,542.00	\$ 74,734.00	\$ 809,253.00
UPGRADE ENERGY MANAGEMENT SYSTEMS	FFX	ALL CAMPUSES	1,283	\$ 139,715.00	3,690,488	\$ 81,191.00	0	\$ -	452	\$ 2,696.00	\$ 14,055.00	\$ 237,657.00
CONDITIONING: COIL CLEANING & LOOP FLUSH												\$ -
VENDIMIZERS												\$ -
METER CONSOLIDATION												\$ -
		TOTALS	2,599	\$ 283,088.00	15,343,248	\$ 341,038.00	69,793	\$ 684,021.00	64,491	\$ 391,164.00	\$ 172,378.00	\$ 1,871,689.00

15,343,248 KWH  
697,930 Therms NG  
Equivalency Results 14,070 metric tons CO2

Annual greenhouse gas emissions from 2,759 passenger vehicles

CO2 emissions from 1,577,317 gallons of gasoline consumed

CO2 emissions from 32,720 barrels of oil consumed

CO2 emissions from 186 tanker trucks’ worth of gasoline

CO2 emissions from the electricity use of 1,754 homes for one year

CO2 emissions from the energy use of 1,221 homes for one year

Carbon sequestered by 360,761 tree seedlings grown for 10 years

Carbon sequestered annually by 3,000 acres of pine or fir forests

Carbon sequestered annually by 140 acres of forest preserved from deforestation

CO2 emissions from 586,236 propane cylinders used for home barbeques

CO2 emissions from 77 burning railcars’ worth of coal

Greenhouse gas emissions avoided by 4,902 recycling tons of waste instead of sending it to the landfill

Annual CO2 emissions of 0.0038 coal fired power plants