Mendocino County Energy Efficiency Measures									
Measure Number	Included in Project	Energy Efficiency Measure Description	Project Cost	First Year Annual Energy Savings	kWh Savings	Natural Gas Savings, Therms	Maintenance Savings	Estimated Rebate	Simple Payba (in years)
		Ukiah	Recommen	ded Measures					
1	Y	 Administration Center Comprehensive Lighting Retrofit - lighting upgrades include LED replacements for offices, council room, parking lot, and many other interior and exterior lighting fixtures. Admin Package Unit Replacement - replacement of 13 package units of 	\$133,278	\$18,514	108,909	0	\$1,333	\$0	6.7
2	Y	various sizes and SEER ratings of around 10 with high efficiency (up to 15.6 SEER) package units from Carrier or equivalent.	\$201,274	\$2,087	9,465	327	\$2,013	\$4,000	48.1
3	Y	 Admin Exhaust Fan Replacement - Replace 2 old exhaust fans on the roof with new exhaust fans driven by electronically commutated motors (ECM). Admin Split System Replacement - replace 2 ductless and 3 condenser/fan 	\$12,291	\$271	1,594	0	\$123	\$0	31.2
4	Y	 coil split systems with Fujitsu or equivalent ductless split and Carrier or equivalent condenser/fan coil split systems. Juvenile Hall Comprehensive Lighting Retrofit - LED lighting upgrade include 	\$57,803	\$865	5,088	0	\$578	\$0	40.1
5	Y	wall packs, barn lights, over 250 interior fluorescents and many other interior and exterior lighting fixtures. Juvenile Hall Split Systems Replacement - replacement of 6 condenser/coil	\$51,960	\$8,107	47,687	0	\$520	\$0	6.0
6	I Y	split systems with condenser/coil systems that offer up to 16.5 SEER. Juvenile Hall Furnace Replacement - replacement of 10 80% furnaces with	\$78,794 \$65,406	\$1,520 \$3,745	8,942 0	0 2,565	\$788 \$654	\$4,000 \$0	32.4
0	N	95%+ furnaces from Carrier or equivalent. Juvenile Hall Package Unit Replacement - replace 3 obsolete gas/electric			2.420				
8	Y	 package units with high efficiency (up to 15.6 SEER) Carrier package units, or equivalent. Main Jail Comprehensive Lighting Retrofit - LED replacement lighting 	\$49,701	\$822	3,430	164	\$497	\$0 ¢0	37.7
9	Y	upgrades in offices, cells, classrooms, and many more interior and exterior lighting fixtures. Main Jail Package Unit Replacement - replace 6 package units with high	\$141,063	\$16,441	96,712	0	\$1,411	\$0	7.9
10	Y	efficiency (up to 15.6 SEER) gas/electric package units. Main Jail Water Heater Replacement - replace 3 water heaters, one 19 gallon	\$174,116	\$6,321	32,826	507	\$1,741	\$4,000	21.1
11		 and two 100 gallon with one tankless water heater and two 100 gallon condensing water heaters. DOT Comprehensive Lighting Retrofit - lighting upgrade includes LED lights for 	\$35,664	\$1,242	0	850	\$357	\$0	22.3
12	Y	various interior and exterior lighting fixtures. DOT Split System Replacement - replace 1 condenser/fan coil and 7	\$66,201	\$6,502	38,247	0	\$662	\$2,464	8.9
13 14	I Y	condenser/coil split systems with new higher efficiency systems. DOT Furnace Replacement - replace 6 existing 80% AFUE furnaces with Carrier	\$96,884 \$29,197	\$1,183 \$787	6,960 0	0 539	\$969 \$292	\$0 \$1,200	45.0 25.9
15		95%+ condensing furnaces, or equivalent. DOT Ductless Split System Replacement - replace 5 ductless split systems with Fujitsu or equivalent ductless split systems that are rated up to 33 SEER.	\$33,360	\$326	1,920	0	\$334	\$0	50.5
16	Y	DOT Unit Heater Replacement - replace 3 Dayton unit heaters with a Roberts Gordon IR heater system that is ideal for garages and spaces with large doors that are regularly open.	\$101,350	\$1,076	0	737	\$1,014	\$0	48.5
17	Y	Willits Justice Center Comprehensive Lighting Retrofit - LED lighting upgrade for	\$18,738	\$2,434	14,316	0	\$187	\$257	7.1
18	Y	 interior and exterior lighting fixtures at the Willits Justice Center. Justice Center Ductless Split System Replacement - replace one existing 1.5 ton ductless splits system with a Fujitsu Halcyon 1.5 ton ductless split system, or equivalent system. 	\$7,602	\$105	620	0	\$76	\$0	41.9
19	Y	Justice Center Package Unit Replacement - replace 5 existing package units with high efficiency package units from Carrier or equivalent.	\$145,704	\$2,787	15,822	66	\$1,457	\$0	34.3
20	Y	HHSA Comprehensive Lighting Retrofit - interior and exterior LED lighting upgrades replacing 4ft fluorescents, exit signs, HPS lamps, and more.	\$19,975	\$1,825	10,734	0	\$200	\$1,200	9.3
21	Y	HHSA Ductless Split System Replacement - replace one existing 2 ton ductless split system with a 2 ton Fujitsu Halcyon ductless split system, or equivalent.	\$8,521	\$186	1,093	0	\$85	\$0	31.4
22A	V	HHSA Package Unit Replacement - replace 11 existing package units of various sizes with high efficiency package units from Carrier or equivalent.	\$130,993	\$742	3,252	130	\$1,310	\$0	63.8
22B	N	 HHSA Package Unit Replacement - replace the 2 existing recalled units with high efficiency package units from Carrier or equivalent. WISC Comprehensive Lighting Retrofit - interior and exterior LED lighting 	\$21,803	\$138	654	18	\$218	\$0	61.2
23	Y	upgrades replacing HPS lamps, 4ft fluorescents, u-tube fluorescents, and more. WISC Package Unit Replacement - this measure is the replacement of 10	\$30,470	\$2,574	15,142	0	\$305	\$1,200	10.2
24A	Y	existing gas/electric package units with high efficiency package units from Carrier or equivalent. WISC Package Unit Replacement - replacement of the 2 existing recalled	\$124,431	\$726	3,283	115	\$1,244	\$0	63.1
24B	N	<i>gas/electric package units with high efficiency package units from Carrier or equivalent.</i> WISC Exhaust Fan Replacement - replace one existing exhaust fan with a new	\$22,197	\$138	654	18	\$222	\$0	61.6
25	Y	high efficiency exhaust fan with an EC motor. Child Care Center Comprehensive Lighting Retrofit - upgrade to LED lighting	\$6,479	\$179	1,052	0	\$65	\$0	26.6
26 27	Y	both inside and outside the building. Sheriff's Office Comprehensive Lighting Retrofit - lighting upgrades include	\$2,655 \$19,966	\$249 \$3,125	1,465 18,384	0	\$27 \$200	\$65 \$850	9.4 5.7
		LED replacements for offices, cells, exit signs, and exterior lighting fixtures. Fort Bragg FB Justice Center Comprehensive Lighting Retrofit - lighting upgrade includes	.						
28	Y	LED lights for offices, exterior lighting, and restrooms with occupancy sensors where needed. Avila Center Comprehensive Lighting Retrofit - lighting upgrade includes LED lights for poles, parking lot, restrooms, and other interior and exterior lighting	\$44,838	\$4,638	29,925	0	\$448	\$1,412	8.5
30	Y	 lights for poles, parking lot, restrooms, and other interior and exterior lighting fixtures. Avila Center Package Unit Replacement - replace one 4 ton package heat pump unit with a Carrier Performance series 15+ SEER package heat pump, or 	\$40,616	\$3,882	25,043	0	\$406	\$1,279 \$0	9.2
31		equivalent. Avila Center Bard Unit Replacement - replace two, 18 year old, 3 ton wall mount heat pump units with high efficiency heat pumps.	\$12,042	\$104	830	0	\$120	\$0	64.4
32	Y	County-Wide County-Wide Solar Energy Generation Project - installation of a 474kW RES-BCT field for PG&E territory solar energy generation, trackers rotated the panels following	\$1,518,245	\$154,802	998,721	0	(\$5,400)	\$0	10.2
33	Y	the sun's path for optimal energy generation. Solar Energy Generation Project - installation of a 296kW rooftop solar energy generation for the Administration building, trackers rotate the panels		\$74,708	622,569	0	(\$2,735)	\$0	10.7
34	Y	following the sun's path for optimal energy generation. Solar Energy Generation Project - installation of a 397kW rooftop solar energy generation for the County Jail, trackers rotate the panels following the sun's		\$100,270	835,584	0	(\$3,671)	\$0	10.7
		path for optimal energy generation. Total Cost of all Measures Energy Audit		\$423,334	2,960,670	6,001	\$7,847	\$21,927	12.2
		Engineering Bonding	\$25,115 \$36,166						
		PROJECT TOTALS Parameters: 1.0-kW = 1.0-Therms = Electricity Cost = Natural Gas Cost =	\$5,356,806 0.00072 0.00553 \$0.17 \$1.46	\$423,334 Metric Tons GHG Er Metric Tons GHG Er per kWh per Therm		6,001 Annual greenhouse gas Equivalent Number Pas Equivalent reduction in Equivalent reduction of	senger Vehicles per yea gallons of gas consume	r: d per year:	12.4 2164.9 368.0 222,981 4546.2