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FISCAL IMPACT Renewable Energy Partial Abatement of Property Taxes Harry Allen Solar Energy LLC

This report was prepared to fulfill the requirements of NRS 701A.375 to indicate an estimate of the fiscal impact of the partial property tax abatement on the State and on each affected local government.

Background

The project, known as the Harry Allen Solar Energy Project (the "HSEP"), is owned by Harry Allen Solar Energy, LLC. The solar photovoltaic ("PV") facility will have a gross production capacity of 100 MW and an annual net production capacity of 300 GWh. The project is expected to be in commercial operation by November 1, 2020.

The HSEP will be located approximately 15 miles northeast of Las Vegas in the BLM Dry Lake Solar Energy Zone. The BLM and Harry Allen Solar Energy LLC executed a right-of-way grant for the HSEP in April, 2018. The 640 acre HSEP area is located within Sections 33 and 34, Township 17S, Range 63E, and Sections 3 and 4, Township 18S, Range 63E, Mount Diablo Meridian, in Clark County, Nevada. The Clark County Assessor's parcel number (APN) is 084-35-000-003.

The property components of the facility will consist of PV modules, a single axis tracking system, driven pile foundations, DC wiring, DC/AC inverters, medium voltage step-up transformers, AC cabling, a central substation with a high voltage step-up transformer and one mile of high voltage transmission line to the interconnection point at the NV Energy 230 kV Harry Allen Substation.

Analysis

Determination of Central or Local Assessment

Generally speaking, electric light and power companies that are located completely within a county, with no transmission lines carrying power across county lines, are locally assessed. NRS 361.320(7). Facilities that own transmission lines or other property that traverse county boundary lines are centrally assessed. NRS 361.320(1).

NRS 361.320(6) adds an exception to the general rule expressed above. It states:

If two or more persons perform separate functions that collectively are needed to deliver electric service to the final customer and the property used in performing the functions would be centrally assessed if owned by one person, the Nevada Tax Commission shall establish its valuation and apportion the valuation among the several counties in the same manner as the valuation of other centrally assessed property.

Based on the location of the facility assets in Clark County and the interchange substation belonging to NV Energy, also located in the same county, the property appears to qualify for local assessment.

Description of Replacement Cost New Methodology and Tax Calculation

In general, locally assessed real property must be valued according to the requirements of NRS 361.227. Replacement cost new of the improvements, less depreciation at the rate of 1-1/2% per year for a maximum of 50 years, is added to the full cash value of the improved land. The land value was estimated using a ground-rent capitalization methodology authorized by NAC 361.1198. Personal property is valued based on acquisition cost less depreciation identified in the Personal Property Manual approved by the Nevada Tax Commission. The Department did not adjust upward the reported acquisition cost of improvements or personal property to reflect any appreciation, based on the assumption that the cost of development will go down over time, as indicated by recent industry reports regarding declining costs of utility scale solar PV projects.¹

The Taxpayer identified one BLM leased parcel of land as part of the project in Schedule 3 of the application having a total acreage of 640 acres, identified as BLM Right of Way N-93321. The land is identified as Clark County Assessor's Parcel Number (APN) 084-35-000-003.

The county assessor established a taxable value of about \$4,692 per acre. For the balance of the 20 years for which the abatement may be granted, an appreciation factor of 1.5% per year was applied to the value of the land for each year of the abatement period.

The Taxpayer also reported several project cost areas as "personal" property (modules, inverters, racking, SCADA and security, O & M building furniture and appliances, personal computers and electrical) rather than real property. The Department used the cost reported by the Taxpayer for each cost center but determined that all components were real property when operated as a unit. The Department based its determination of real property on NRS 361.035, which requires all buildings, fences, ditches, structures, erections, or other improvements built or erected upon any land to be classified as real property, as well as NAC 361.1127, 361.1133, and 361.11715, NAC 361.11745, as well as the 2019-20 Personal Property Manual, Appendix E.

The Department's understanding is that the solar field consists of components either attached to the land and foundations, or "so essential to the land or improvement that the land or improvement cannot perform its desired function without the nonattached item," for example, the solar array foundations, underground cabling, substations, and transmission lines. At the time this fiscal note was produced, the Taxpayer had not submitted any information regarding the exception to the fixture test in NAC 361.1127 and NAC 361.11745 with regard to whether solar modules and other components are installed non-permanently and not for the enhancement of the real property to which it is attached; and had not shown whether the property has a unique identity and function distinct from the real property to which it is attached. The list of construction permits obtained by Harry Allen Solar Energy, LLC from Clark County and listed in the application are also an objective indication of the permanent nature of the facility. In addition, the BLM lease provides for an initial term of 50 years with the right to renew. This information is indicative of the permanence of the facility.

The Taxpayer listed \$1,741,000 property as Contributions in Aid of Construction. Capital invested as a contribution in aid of construction (CIAC) is not eligible for a renewable energy abatement by the contributor of the capital because taxable property is assessed to the owner and not the contributor of the property. CIAC are either cash or utility type property *contributed to the utility* by a customer to assist the utility in providing utility service to the customer and are non-refundable to the customer. The utility which might have received any CIAC, in this case NV Energy would be the owner of any contributed plant.²

¹ <u>http://energy.gov/maps/falling-price-utility-scale-solar-photovoltaic-pv-projects</u>

² NRS 361.260 requires the county assessor to "ascertain all real and secured personal property that is in the county on July 1 which is subject to taxation, and also the names of all persons, corporations, associations, companies or firms *owning* the property. The county assessor shall then determine the taxable value of all such property, and shall then list and assess it to the person, firm, corporation, association or company *owning* it on July 1 of that fiscal year."

The Department also used the 2019-20 tax rate of \$2.5017 per hundred (0.025017) for Tax District 100 without further adjustment. Under current law, the maximum tax rate could go up to \$3.66; however, the project is also subject to the tax abatement afforded under NRS 361.4722, which limits tax dollar increases to no more than 8% per year.

The calculation of the renewable energy abatement contained in the attached spreadsheets takes into account the required distribution of remaining taxes after abatement to local governments in Tax District 100, Clark County, including a distribution to the State Debt Fund. Since the application was submitted on March 25, 2019, after the effective date for AB 239 (2013), this fiscal note assumes no distribution will be made to the State Renewable Energy Fund.

Estimate of Property Tax Abatement

Based on the assumptions and conditions noted above, the estimated fiscal impact for the duration of the abatement for 20 years is as follows:

Total Taxable Value of the Project in 2021:	\$	130,953,458
Total Taxable Value of the Project in 2041:	\$	95,918,704
Estimated capital cost per kW (130,953,458/100,000)	\$ 1	,310/kW
Total Taxes Due, First Year After Completion:	\$	1,146,621
Total Renewable Energy Abatement, First Year:	\$	630,642
Total Taxes Available to Local Governments after abatement:	\$	515,980

The amount of the abatement for each year thereafter approximates the amount obtained in the first year and continues during the period of abatement as follows:

Total Taxes Due during Period of Abatement (20 years):	\$ 19,857,569
Total Renewable Energy Abatement, 20 years:	\$ 10,921,663
Total Taxes Available to Local Governments after abatement:	\$ 8,935,906

See attached spreadsheets for the amounts by year and by local government entity.

RENEWABLE ENERGY ABATEMENT WORKSHEET

EXCLUDES STATE RENEWABLE ENERGY FUND		COMBINED TAX RATE	TOTAL TAXES DUE	TOTAL RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TAXES AFTER ABATEMENT
Harry Allen Solar Energy LLC 20 Year Summar	/	0.025017	19,857,568.74	(10,921,662.81)	8,935,905.93	100.000%

TAXING ENTITY	TAX RATE	SCHOOL SWITCH	TOTAL TAXES DUE	RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TOTAL TAXES
State of Nevada	0.001700	1	1,349,397.08	(742,168.39)	607,228.69	6.795%
Clark County School District	0.013034	1	10,345,906.81	(5,690,248.75)	4,655,658.06	52.101%
Clark County (unincorporated)	0.006541	1	5,192,003.72	(2,855,602.05)	2,336,401.67	26.146%
Las Vegas Metro Police - Manpower	0.002800	1	2,222,536.38	(1,222,395.01)	1,000,141.37	11.192%
Las Vegas/Clark County Library District	0.000942	1	747,724.75	(411,248.61)	336,476.14	3.765%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%

NET TAXABLE VALUE	AVERAGE ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
95,918,704	55.0%	100.0%	55.0%	(10,921,662.81)

ASSET	TOTAL TAXABLE VALUE	ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
Solar Energy Facility	95,918,704	55.00%	100.00%	55.00%	(10,921,662.81)

RENEWABLE ENERGY ABATEMENT WORKSHEET DISTRICT 10

EXCLUDES STATE RENEWABLE ENERGY FUND	COMBINED TAX RATE	TOTAL TAXES DUE	TOTAL RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TAXES AFTER ABATEMENT
Harry Allen Solar Energy LLC 2021-22	0.025017	1,146,621.94	(630,642.07)	515,979.87	100.000%

TAXING ENTITY	TAX RATE	SCHOOL SWITCH	TOTAL TAXES DUE	RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TOTAL TAXES
State of Nevada	0.001700	1	77,917.31	(42,854.52)	35,062.79	6.795%
Clark County School District	0.013034	1	597,396.58	(328,568.12)	268,828.46	52.101%
Clark County (unincorporated)	0.006541	1	299,798.30	(164,889.07)	134,909.23	26.146%
Las Vegas Metro Police - Manpower	0.002800	1	128,334.39	(70,583.91)	57,750.48	11.192%
Las Vegas/Clark County Library District	0.000942	1	43,175.36	(23,746.45)	19,428.91	3.765%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%

NET TAXABLE VALUE	AVERAGE ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
130,953,458	55.0%	100.0%	55.0%	(630,642.07)

ASSET	TOTAL TAXABLE VALUE	ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
Solar Energy Facility	130,953,458	55.00%	100.00%	55.00%	(630,642.07)

RENEWABLE ENERGY ABATEMENT WORKSHEET

DISTRICT 2, Churchill County

EXCLUDES STATE RENEWABLE ENERGY FUND	COMBINED TAX RATE	TOTAL TAXES DUE	TOTAL RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TAXES AFTER ABATEMENT
Harry Allen Solar Energy, LLC 2022-23	0.025017	1,130,342.87	(621,688.58)	508,654.29	100.000%

TAXING ENTITY	TAX RATE	SCHOOL SWITCH	TOTAL TAXES DUE	RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TOTAL TAXES
State of Nevada	0.001700	1	76,811.08	(42,246.09)	34,564.99	6.795%
Clark County School District	0.013034	1	588,915.10	(323,903.31)	265,011.79	52.101%
Clark County (unincorporated)	0.006541	1	295,541.94	(162,548.07)	132,993.87	26.146%
Las Vegas Metro Police - Manpower	0.002800	1	126,512.37	(69,581.80)	56,930.57	11.192%
Las Vegas/Clark County Library District	0.000942	1	42,562.38	(23,409.31)	19,153.07	3.765%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%

NET TAXABLE VALUE	AVERAGE ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
129,094,260	55.0%	100.0%	55.0%	(621,688.58)

ASSET	TOTAL TAXABLE VALUE	ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
Solar Energy Facility	129,094,260	55.00%	100.00%	55.00%	(621,688.58)

RENEWABLE ENERGY ABATEMENT WORKSHEET **DISTRICT 100, Clark County** PERCENT COMBINED TOTAL RENEW TAXES AFTER EXCLUDES STATE RENEWABLE ENERGY FUND TOTAL TAXES DUE TAXES AFTER ABATEMENT TAX RATE ABATEMENT

0.025017

1,114,128.22

(612,770.51)

Harry Allen Solar Energy, LLC 2023-24

TAXING ENTITY	TAX RATE	SCHOOL SWITCH	TOTAL TAXES DUE	RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TOTAL TAXES
State of Nevada	0.001700	1	75,709.24	(41,640.08)	34,069.16	6.795%
Clark County School District	0.013034	1	580,467.17	(319,256.94)	261,210.23	52.101%
Clark County (unincorporated)	0.006541	1	291,302.42	(160,216.33)	131,086.09	26.146%
Las Vegas Metro Police - Manpower	0.002800	1	124,697.57	(68,583.66)	56,113.91	11.192%
Las Vegas/Clark County Library District	0.000942	1	41,951.82	(23,073.50)	18,878.32	3.765%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%

NET TAXABLE VALUE	AVERAGE ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
127,242,414	55.0%	100.0%	55.0%	(612,770.51)

ASSET	TOTAL TAXABLE VALUE	ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
Solar Energy Facility	127,242,414	55.00%	100.00%	55.00%	(612,770.51)

ABATEMENT

100.000%

501,357.71

RENEWABLE ENERGY ABATEMENT WORKSHEET DISTRICT

EXCLUDES STATE RENEWABLE ENERGY FUND	COMBINED TAX RATE	TOTAL TAXES DUE	TOTAL RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TAXES AFTER ABATEMENT
Harry Allen Solar Energy, LLC 2024-25	0.025017	1,097,871.22	(603,829.17)	494,042.05	100.000%

TAXING ENTITY	TAX RATE	SCHOOL SWITCH	TOTAL TAXES DUE	RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TOTAL TAXES
State of Nevada	0.001700	1	74,604.51	(41,032.48)	33,572.03	6.795%
Clark County School District	0.013034	1	571,997.18	(314,598.45)	257,398.73	52.101%
Clark County (unincorporated)	0.006541	1	287,051.83	(157,878.51)	129,173.32	26.146%
Las Vegas Metro Police - Manpower	0.002800	1	122,878.02	(67,582.91)	55,295.11	11.192%
Las Vegas/Clark County Library District	0.000942	1	41,339.68	(22,736.82)	18,602.86	3.765%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%

NET TAXABLE VALUE	AVERAGE ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
125,385,734	55.0%	100.0%	55.0%	(603,829.17)

ASSET	TOTAL TAXABLE VALUE	ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
Solar Energy Facility	125,385,734	55.00%	100.00%	55.00%	(603,829.17)

RENEWABLE ENERGY ABATEMENT WORKSHEET

EXCLUDES STATE RENEWABLE ENERGY FUND	COMBINED TAX RATE	TOTAL TAXES DUE	TOTAL RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TAXES AFTER ABATEMENT
Harry Allen Solar Energy, LLC 2025-26	0.025017	1,081,678.23	(594,923.03)	486,755.20	100.000%

TAXING ENTITY	TAX RATE	SCHOOL SWITCH	TOTAL TAXES DUE	RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TOTAL TAXES
State of Nevada	0.001700	1	73,504.14	(40,427.28)	33,076.86	6.795%
Clark County School District	0.013034	1	563,560.54	(309,958.30)	253,602.24	52.101%
Clark County (unincorporated)	0.006541	1	282,817.97	(155,549.88)	127,268.09	26.146%
Las Vegas Metro Police - Manpower	0.002800	1	121,065.64	(66,586.10)	54,479.54	11.192%
Las Vegas/ Clark County Library District	0.000942	1	40,729.94	(22,401.47)	18,328.47	3.765%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%

NET TAXABLE VALUE	AVERAGE ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
123,536,364	55.0%	100.0%	55.0%	(594,923.03)

ASSET	TOTAL TAXABLE VALUE	ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
Solar Energy Facility	123,536,364	55.00%	100.00%	55.00%	(594,923.03)

RENEWABLE ENERGY ABATEMENT WORKSHEET

EXCLUDES STATE RENEWABLE ENERGY FUND	COMBINED TAX RATE	TOTAL TAXES DUE	TOTAL RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TAXES AFTER ABATEMENT
Harry Allen Solar Energy, LLC 2026-27	0.025017	1,065,444.12	(585,994.26)	479,449.86	100.000%

TAXING ENTITY	TAX RATE	SCHOOL SWITCH	TOTAL TAXES DUE	RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TOTAL TAXES
State of Nevada	0.001700	1	72,400.97	(39,820.53)	32,580.44	6.795%
Clark County School District	0.013034	1	555,102.48	(305,306.36)	249,796.12	52.101%
Clark County (unincorporated)	0.006541	1	278,573.37	(153,215.35)	125,358.02	26.146%
Las Vegas Metro Police - Manpower	0.002800	1	119,248.65	(65,586.76)	53,661.89	11.192%
Las Vegas/ Clark County Library District	0.000942	1	40,118.65	(22,065.26)	18,053.39	3.765%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%

NET TAXABLE VALUE	AVERAGE ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
121,682,299	55.0%	100.0%	55.0%	(585,994.26)

ASSET	TOTAL TAXABLE VALUE	ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
Solar Energy Facility	121,682,299	55.00%	100.00%	55.00%	(585,994.26)

RENEWABLE ENERGY ABATEMENT WORKSHEET DISTRI

EXCLUDES STATE RENEWABLE ENERGY FUND	COMBINED TAX RATE	TOTAL TAXES DUE	TOTAL RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TAXES AFTER ABATEMENT
Harry Allen Solar Energy, LLC 2027-28	0.025017	1,049,273.67	(577,100.52)	472,173.15	100.000%

TAXING ENTITY	TAX RATE	SCHOOL SWITCH	TOTAL TAXES DUE	RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TOTAL TAXES
State of Nevada	0.001700	1	71,302.12	(39,216.17)	32,085.95	6.795%
Clark County School District	0.013034	1	546,677.58	(300,672.67)	246,004.91	52.101%
Clark County (unincorporated)	0.006541	1	274,345.41	(150,889.98)	123,455.43	26.146%
Las Vegas Metro Police - Manpower	0.002800	1	117,438.79	(64,591.33)	52,847.46	11.192%
Las Vegas/ Clark County Library District	0.000942	1	39,509.77	(21,730.37)	17,779.40	3.765%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%

NET TAXABLE VALUE	AVERAGE ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
119,835,503	55.0%	100.0%	55.0%	(577,100.52)

ASSET	TOTAL TAXABLE VALUE	ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
Solar Energy Facility	119,835,503	55.00%	100.00%	55.00%	(577,100.52)

RENEWABLE ENERGY ABATEMENT WORKSHEET DISTRIC

EXCLUDES STATE RENEWABLE ENERGY FUND	COMBINED TAX RATE	TOTAL TAXES DUE	TOTAL RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TAXES AFTER ABATEMENT
Harry Allen Solar Energy, LLC 2028-29	0.025017	1,033,063.37	(568,184.86)	464,878.51	100.000%

TAXING ENTITY	TAX RATE	SCHOOL SWITCH	TOTAL TAXES DUE	RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TOTAL TAXES
State of Nevada	0.001700	1	70,200.57	(38,610.31)	31,590.26	6.795%
Clark County School District	0.013034	1	538,231.92	(296,027.56)	242,204.36	52.101%
Clark County (unincorporated)	0.006541	1	270,107.03	(148,558.87)	121,548.16	26.146%
Las Vegas Metro Police - Manpower	0.002800	1	115,624.47	(63,593.46)	52,031.01	11.192%
Las Vegas/Clark County Library District	0.000942	1	38,899.38	(21,394.66)	17,504.72	3.765%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%

NET TAXABLE VALUE	AVERAGE ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
117,984,155	55.0%	100.0%	55.0%	(568,184.86)

ASSET	TOTAL TAXABLE VALUE	ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
Solar Energy Facility	117,984,155	55.00%	100.00%	55.00%	(568,184.86)

RENEWABLE ENERGY ABATEMENT WORKSHEET

EXCLUDES STATE RENEWABLE ENERGY FUND	COMBINED TAX RATE	TOTAL TAXES DUE	TOTAL RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TAXES AFTER ABATEMENT
Harry Allen Solar Energy, LLC 2029 -2030	0.025017	1,016,916.37	(559,304.00)	457,612.37	100.000%

TAXING ENTITY	TAX RATE	SCHOOL SWITCH	TOTAL TAXES DUE	RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TOTAL TAXES
State of Nevada	0.001700	1	69,103.32	(38,006.83)	31,096.49	6.795%
Clark County School District	0.013034	1	529,819.24	(291,400.58)	238,418.66	52.101%
Clark County (unincorporated)	0.006541	1	265,885.20	(146,236.86)	119,648.34	26.146%
Las Vegas Metro Police - Manpower	0.002800	1	113,817.24	(62,599.48)	51,217.76	11.192%
Las Vegas/Clark County Library District	0.000942	1	38,291.37	(21,060.25)	17,231.12	3.765%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%

NET TAXABLE VALUE	AVERAGE ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
116,140,038	55.0%	100.0%	55.0%	(559,304.00)

ASSET	TOTAL TAXABLE VALUE	ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
Solar Energy Facility	116,140,038	55.00%	100.00%	55.00%	(559,304.00)

RENEWABLE ENERGY ABATEMENT WORKSHEET DISTRIC

EXCLUDES STATE RENEWABLE ENERGY FUND	COMBINED TAX RATE	TOTAL TAXES DUE	TOTAL RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TAXES AFTER ABATEMENT
Harry Allen Solar Energy, LLC 2030-31	0.025017	1,000,730.75	(550,401.91)	450,328.84	100.000%

TAXING ENTITY	TAX RATE	SCHOOL SWITCH	TOTAL TAXES DUE	RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TOTAL TAXES
State of Nevada	0.001700	1	68,003.45	(37,401.90)	30,601.55	6.795%
Clark County School District	0.013034	1	521,386.44	(286,762.54)	234,623.90	52.101%
Clark County (unincorporated)	0.006541	1	261,653.27	(143,909.30)	117,743.97	26.146%
Las Vegas Metro Police - Manpower	0.002800	1	112,005.68	(61,603.12)	50,402.56	11.192%
Las Vegas/Clark County Library District	0.000942	1	37,681.91	(20,725.05)	16,956.86	3.765%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%

NET TAXABLE VALUE	AVERAGE ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
114,291,510	55.0%	100.0%	55.0%	(550,401.91)

ASSET	TOTAL TAXABLE VALUE	ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
Solar Energy Facility	114,291,510	55.00%	100.00%	55.00%	(550,401.91)

DISTRICT 100, Clark County RENEWABLE ENERGY ABATEMENT WORKSHEET

EXCLUDES STATE RENEWABLE ENERGY FUND	COMBINED TAX RATE	TOTAL TAXES DUE	TOTAL RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TAXES AFTER ABATEMENT	
Harry Allen Solar Energy, LLC 2031-32	0.025017	984,608.16	(541,534.48)	443,073.68	100.000%	
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TAXING ENTITY	TAX RATE	SCHOOL SWITCH	TOTAL TAXES DUE	RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TOTAL TAXES
State of Nevada	0.001700	1	66,907.86	(36,799.32)	30,108.54	6.795%
Clark County School District	0.013034	1	512,986.48	(282,142.56)	230,843.92	52.101%
Clark County (unincorporated)	0.006541	1	257,437.82	(141,590.80)	115,847.02	26.146%
Las Vegas Metro Police - Manpower	0.002800	1	110,201.18	(60,610.65)	49,590.53	11.192%
Las Vegas/Clark County Library District	0.000942	1	37,074.82	(20,391.15)	16,683.67	3.765%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%

NET TAXABLE VALUE	AVERAGE ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
112,450,181	55.0%	100.0%	55.0%	(541,534.48)

ASSET	TOTAL TAXABLE VALUE	ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
Solar Energy Facility	112,450,181	55.00%	100.00%	55.00%	(541,534.48)

RENEWABLE ENERGY ABATEMENT WORKSHEET

EXCLUDES STATE RENEWABLE ENERGY FUND	COMBINED TAX RATE	TOTAL TAXES DUE	TOTAL RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TAXES AFTER ABATEMENT
Harry Allen Solar Energy, LLC 2033-34	0.025017	968,448.20	(532,646.51)	435,801.69	100.000%

TAXING ENTITY	TAX RATE	SCHOOL SWITCH	TOTAL TAXES DUE	RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TOTAL TAXES
State of Nevada	0.001700	1	65,809.73	(36,195.35)	29,614.38	6.795%
Clark County School District	0.013034	1	504,567.05	(277,511.88)	227,055.17	52.101%
Clark County (unincorporated)	0.006541	1	253,212.60	(139,266.93)	113,945.67	26.146%
Las Vegas Metro Police - Manpower	0.002800	1	108,392.49	(59,615.87)	48,776.62	11.192%
LasVegas/Clark County Library District	0.000942	1	36,466.33	(20,056.48)	16,409.85	3.765%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%

NET TAXABLE VALUE	AVERAGE ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
110,604,583	55.0%	100.0%	55.0%	(532,646.51)

ASSET	TOTAL TAXABLE VALUE	ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
Solar Energy Facility	110,604,583	55.00%	100.00%	55.00%	(532,646.51)

RENEWABLE ENERGY ABATEMENT WORKSHEET

EXCLUDES STATE RENEWABLE ENERGY FUND	COMBINED TAX RATE	TOTAL TAXES DUE	TOTAL RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TAXES AFTER ABATEMENT
Harry Allen Solar Energy, LLC 2033-34	0.025017	952,350.99	(523,793.04)	428,557.95	100.000%

TAXING ENTITY	TAX RATE	SCHOOL SWITCH	TOTAL TAXES DUE	RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TOTAL TAXES
State of Nevada	0.001700	1	64,715.86	(35,593.72)	29,122.14	6.795%
Clark County School District	0.013034	1	496,180.31	(272,899.17)	223,281.14	52.101%
Clark County (unincorporated)	0.006541	1	249,003.79	(136,952.08)	112,051.71	26.146%
Las Vegas Metro Police - Manpower	0.002800	1	106,590.83	(58,624.96)	47,965.87	11.192%
Las Vegas/Clark County Library District	0.000942	1	35,860.20	(19,723.11)	16,137.09	3.765%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%

NET TAXABLE VALUE	AVERAGE ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
108,766,153	55.0%	100.0%	55.0%	(523,793.04)

ASSET	TOTAL TAXABLE VALUE	ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
Solar Energy Facility	108,766,153	55.00%	100.00%	55.00%	(523,793.04)

RENEWABLE ENERGY ABATEMENT WORKSHEET DISTRICT 100, Clark County

PERCENT TAXES COMBINED TOTAL RENEW TAXES AFTER EXCLUDES STATE RENEWABLE ENERGY FUND TOTAL TAXES DUE AFTER TAX RATE ABATEMENT ABATEMENT ABATEMENT Harry Allen Solar Energy, LLC 2034-35 936,217.68 (514,919.73) 421,297.95 100.000% 0.025017

TAXING ENTITY	TAX RATE	SCHOOL SWITCH	TOTAL TAXES DUE	RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TOTAL TAXES
State of Nevada	0.001700	1	63,619.54	(34,990.75)	28,628.79	6.795%
Clark County School District	0.013034	1	487,774.76	(268,276.12)	219,498.64	52.101%
Clark County (unincorporated)	0.006541	1	244,785.54	(134,632.05)	110,153.49	26.146%
Las Vegas Metro Police - Manpower	0.002800	1	104,785.13	(57,631.82)	47,153.31	11.192%
Las Vegas/Clark County Library District	0.000942	1	35,252.71	(19,388.99)	15,863.72	3.765%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%

NET TAXABLE VALUE	AVERAGE ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
106,923,598	55.0%	100.0%	55.0%	(514,919.73)

ASSET	TOTAL TAXABLE VALUE	ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
Solar Energy Facility	106,923,598	55.00%	100.00%	55.00%	(514,919.73)

RENEWABLE ENERGY ABATEMENT WORKSHEET

EXCLUDES STATE RENEWABLE ENERGY FUND	COMBINED TAX RATE	TOTAL TAXES DUE	TOTAL RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TAXES AFTER ABATEMENT
Harry Allen Solar Energy, LLC 2035-36	0.025017	920,146.89	(506,080.78)	414,066.11	100.000%

TAXING ENTITY	TAX RATE	SCHOOL SWITCH	TOTAL TAXES DUE	RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TOTAL TAXES
State of Nevada	0.001700	1	62,527.47	(34,390.11)	28,137.36	6.795%
Clark County School District	0.013034	1	479,401.79	(263,670.98)	215,730.81	52.101%
Clark County (unincorporated)	0.006541	1	240,583.64	(132,321.00)	108,262.64	26.146%
Las Vegas Metro Police - Manpower	0.002800	1	102,986.42	(56,642.53)	46,343.89	11.192%
Las Vegas/Clark County Library District	0.000942	1	34,647.57	(19,056.16)	15,591.41	3.765%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%

NET TAXABLE VALUE	AVERAGE ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
105,088,185	55.0%	100.0%	55.0%	(506,080.78)

ASSET	TOTAL TAXABLE VALUE	ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
Solar Energy Facility	105,088,185	55.00%	100.00%	55.00%	(506,080.78)

RENEWABLE ENERGY ABATEMENT WORKSHEET DISTRICT 100, Clark County

EXCLUDES STATE RENEWABLE ENERGY FUND	COMBINED TAX RATE	TOTAL TAXES DUE	TOTAL RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TAXES AFTER ABATEMENT
Harry Allen Solar Energy, LLC 2036-37	0.025017	904,041.26	(497,222.69)	406,818.57	100.000%

TAXING ENTITY	TAX RATE	SCHOOL SWITCH	TOTAL TAXES DUE	RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TOTAL TAXES
State of Nevada	0.001700	1	61,433.03	(33,788.17)	27,644.86	6.795%
Clark County School District	0.013034	1	471,010.66	(259,055.86)	211,954.80	52.101%
Clark County (unincorporated)	0.006541	1	236,372.62	(130,004.94)	106,367.68	26.146%
Las Vegas Metro Police - Manpower	0.002800	1	101,183.82	(55,651.10)	45,532.72	11.192%
Las Vegas/Clark County Library District	0.000942	1	34,041.13	(18,722.62)	15,318.51	3.765%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%

NET TAXABLE VALUE	AVERAGE ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
103,248,792	55.0%	100.0%	55.0%	(497,222.69)

ASSET	TOTAL TAXABLE VALUE	ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
Solar Energy Facility	103,248,792	55.00%	100.00%	55.00%	(497,222.69)

RENEWABLE ENERGY ABATEMENT WORKSHEET DISTRICT 100, Clark County

EXCLUDES STATE RENEWABLE ENERGY FUND	COMBINED TAX RATE	TOTAL TAXES DUE	TOTAL RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TAXES AFTER ABATEMENT
Harry Allen Solar Energy, LLC 2037-38	0.025017	887,997.96	(488,398.89)	399,599.07	100.000%
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TAXING ENTITY	TAX RATE	SCHOOL SWITCH	TOTAL TAXES DUE	RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TOTAL TAXES
State of Nevada	0.001700	1	60,342.83	(33,188.56)	27,154.27	6.795%
Clark County School District	0.013034	1	462,652.01	(254,458.61)	208,193.40	52.101%
Clark County (unincorporated)	0.006541	1	232,177.90	(127,697.85)	104,480.05	26.146%
Las Vegas Metro Police - Manpower	0.002800	1	99,388.19	(54,663.50)	44,724.69	11.192%
Las Vegas/Clark County Library District	0.000942	1	33,437.03	(18,390.37)	15,046.66	3.765%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%

NET TAXABLE VALUE	AVERAGE ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
101,416,517	55.0%	100.0%	55.0%	(488,398.89)

ASSET	TOTAL TAXABLE VALUE	ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
Solar Energy Facility	101,416,517	55.00%	100.00%	55.00%	(488,398.89)

RENEWABLE ENERGY ABATEMENT WORKSHEET DISTRICT 100, Clark County

EXCLUDES STATE RENEWABLE ENERGY FUND	COMBINED TAX RATE	TOTAL TAXES DUE	TOTAL RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TAXES AFTER ABATEMENT
Harry Allen Solar Energy, LLC 2038-39	0.025017	871,921.08	(479,556.60)	392,364.48	100.000%

TAXING ENTITY	TAX RATE	SCHOOL SWITCH	TOTAL TAXES DUE	RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TOTAL TAXES
State of Nevada	0.001700	1	59,250.34	(32,587.69)	26,662.65	6.795%
Clark County School District	0.013034	1	454,275.87	(249,851.73)	204,424.14	52.101%
Clark County (unincorporated)	0.006541	1	227,974.41	(125,385.93)	102,588.48	26.146%
Las Vegas Metro Police - Manpower	0.002800	1	97,588.80	(53,673.84)	43,914.96	11.192%
Las Vegas/Clark county Library District	0.000942	1	32,831.66	(18,057.41)	14,774.25	3.765%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%

NET TAXABLE VALUE	AVERAGE ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
99,580,409	55.0%	100.0%	55.0%	(479,556.60)

ASSET	TOTAL TAXABLE VALUE	ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
Solar Energy Facility	99,580,409	55.00%	100.00%	55.00%	(479,556.60)

RENEWABLE ENERGY ABATEMENT WORKSHEET

EXCLUDES STATE RENEWABLE ENERGY FUND	COMBINED TAX RATE	TOTAL TAXES DUE	TOTAL RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TAXES AFTER ABATEMENT
Harry Allen Solar Energy, LLC 2039-40	0.025017	855,906.37	(470,748.49)	385,157.88	100.000%

TAXING ENTITY	TAX RATE	SCHOOL SWITCH	TOTAL TAXES DUE	RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TOTAL TAXES
State of Nevada	0.001700	1	58,162.08	(31,989.14)	26,172.94	6.795%
Clark County School District	0.013034	1	445,932.11	(245,262.66)	200,669.45	52.101%
Clark County (unincorporated)	0.006541	1	223,787.17	(123,082.94)	100,704.23	26.146%
Las Vegas Metro Police - Manpower	0.002800	1	95,796.37	(52,688.00)	43,108.37	11.192%
Las Vegas/Clark County Library District	0.000942	1	32,228.64	(17,725.75)	14,502.89	3.765%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%

NET TAXABLE VALUE	AVERAGE ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
97,751,400	55.0%	100.0%	55.0%	(470,748.49)

ASSET	TOTAL TAXABLE VALUE	ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
Solar Energy Facility	97,751,400	55.00%	100.00%	55.00%	(470,748.49)

RENEWABLE ENERGY ABATEMENT WORKSHEET

DISTRICT 100, Clark County

EXCLUDES STATE RENEWABLE ENERGY FUND	COMBINED TAX RATE	TOTAL TAXES DUE	TOTAL RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TAXES AFTER ABATEMENT
Harry Allen Solar Energy, LLC 2040-41	0.025017	839,859.39	(461,922.67)	377,936.72	100.000%

TAXING ENTITY	TAX RATE	SCHOOL SWITCH	TOTAL TAXES DUE	RENEW ABATEMENT	TAXES AFTER ABATEMENT	PERCENT TOTAL TAXES
State of Nevada	0.001700	1	57,071.63	(31,389.40)	25,682.23	6.795%
Clark County School District	0.013034	1	437,571.54	(240,664.35)	196,907.19	52.101%
Clark County (unicorporated)	0.006541	1	219,591.49	(120,775.32)	98,816.17	26.146%
Las Vegas Metro Police - Manpower	0.002800	1	94,000.33	(51,700.18)	42,300.15	11.192%
Las Vegas/Clark County Library District	0.000942	1	31,624.40	(17,393.42)	14,230.98	3.765%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%
			-	-	-	0.000%

NET TAXABLE VALUE	AVERAGE ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
95,918,704	55.0%	100.0%	55.0%	(461,922.67)

ASSET	TOTAL TAXABLE VALUE	ABATEMENT PERCENTAGE	TAXABLE VALUE PERCENTAGE	WEIGHTED RENEW ABATEMENT PERCENTGE	CURRENT YEAR ABATEMENT
Solar Energy Facility	95,918,704	55.00%	100.00%	55.00%	(461,922.67)

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