

Western Area Power Administration
Boulder Canyon Project
FY 2023 Final Power Repayment Study - Executive Summary

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)
Fiscal Year	O&M Expense	Payment to States	Other Expense	Replacements	Working Capital	Debt Service Interest Expense	Capitalized Deficit Interest Expense	Other Interest Expense	Total Interest Expense	Debt Service Principal Payment	Capitalized Deficit Principal Payment	Total Principal Payments	Total Expenses	Prior Year Carry-Over	Water Sales	Other Revenue	Base Charge	Energy Projection	Energy Dollars	Equivalent Energy Rate	Capacity Projection	Capacity Dollars	Equivalent Capacity Rate	Total Revenue	Net Operating Amount
									Columns(8+9+10)				Sum of Columns (1) thru (7) + Col.(11) + Col.(14)						Col.(19)*0.5 + Capacity Credit		Col.(19)*0.5 - Capacity Credit		Sum of Columns (17, 18, 21, 24)	Column 26 Minus Column 15	
Historical																									
2018	59,516,748	600,000	9,037,214	9,968,127	15,000,000	432,122	-	31,281	463,403	541,245	-	541,245	95,126,737	11,885,531	647,468	16,763,085	65,830,653	3,849,647	38,455,097	9.99	1,613,000	38,455,097	1.99	94,320,746	(805,991)
2019	66,391,187	600,000	12,482,671	11,811,795	-	408,657	-	31,684	440,341	557,482	-	557,482	92,283,476	9,361,400	616,559	15,116,096	67,189,421	3,686,659	34,870,829	9.46	1,545,833	34,870,829	1.88	85,474,312	(6,809,164)
2020	58,016,423	600,000	6,814,639	6,264,539	-	390,902	-	26,511	417,413	574,207	-	574,207	72,687,220	16,542,637	564,065	8,007,052	47,573,466	3,673,800	33,209,701	9.04	1,584,583	33,209,701	1.75	74,990,519	2,303,299
2021	53,308,184	600,000	6,646,006	4,660,679	-	372,456	-	31,351	403,807	591,433	-	591,433	66,210,108	21,554,983	685,130	5,318,913	38,651,082	3,615,770	32,721,731	9.05	1,611,083	32,721,731	1.69	71,447,505	6,201,285
Forecast																									
2022	79,434,255	600,000	11,728,113	8,310,559	-	353,953	-	29,089	383,042	609,176	-	609,176	101,065,144	17,437,349	550,000	21,350,689	67,355,778	3,264,831	33,677,889	10.32	1,383,000	33,677,889	2.03	89,256,467	(11,808,677)
2023	70,844,051	600,000	11,572,000	9,372,500	-	350,097	-	29,875	379,972	627,451	-	627,451	93,395,974	5,628,672	550,000	20,418,742	66,798,560	2,977,624	33,399,280	11.22	1,285,167	33,399,280	2.17	87,767,302	-
2024	75,680,215	600,000	11,918,000	7,769,000	-	331,274	-	29,875	361,149	646,275	-	646,275	96,974,638	-	550,000	20,418,742	76,005,896	3,003,798	38,002,948	12.65	2,074,000	38,002,948	1.53	96,974,638	-
2025	80,449,467	600,000	12,275,000	5,430,000	-	311,885	-	29,875	341,760	665,663	-	665,663	99,761,890	-	550,000	20,418,742	78,793,148	2,863,419	39,396,574	13.76	2,074,000	39,396,574	1.58	99,761,890	-
2026	82,416,900	600,000	12,643,000	6,252,000	-	291,916	-	29,875	321,791	685,633	-	685,633	102,919,323	-	550,000	20,418,742	81,950,581	2,777,563	40,975,290	14.75	2,074,000	40,975,290	1.65	102,919,323	-
2027	83,529,612	600,000	13,022,000	7,436,000	-	271,347	-	29,875	301,222	706,202	-	706,202	105,595,035	-	550,000	20,418,742	84,626,293	2,755,755	42,313,146	15.35	2,074,000	42,313,146	1.70	105,595,035	-
2028	83,322,702	600,000	13,412,000	6,525,000	-	250,161	-	29,875	280,036	727,388	-	727,388	103,967,125	-	550,000	20,418,742	82,998,383	2,770,682	41,499,191	14.98	2,074,000	41,499,191	1.67	103,967,125	-
2029	80,460,771	600,000	13,815,000	6,500,000	-	228,339	-	29,875	258,214	749,209	-	749,209	102,383,195	-	550,000	20,418,742	81,414,453	2,842,700	40,707,226	14.32	2,074,000	40,707,226	1.64	103,383,195	-
2030	79,047,925	600,000	14,229,000	8,650,000	-	205,863	-	29,875	235,738	771,686	-	771,686	103,534,348	-	550,000	20,418,742	82,565,606	2,858,380	41,282,803	14.44	2,074,000	41,282,803	1.66	103,534,348	-
2031	80,633,768	600,000	14,656,000	10,575,000	-	182,712	-	29,875	212,587	794,836	-	794,836	107,472,191	-	550,000	20,418,742	86,503,449	2,876,942	43,251,725	15.03	2,074,000	43,251,725	1.74	107,472,191	-
2032	82,960,410	600,000	15,095,000	15,975,000	-	158,867	-	29,875	188,742	818,681	-	818,681	115,637,833	-	550,000	20,418,742	94,669,091	2,872,875	47,334,546	16.48	2,074,000	47,334,546	1.90	115,637,833	-
2033	82,960,410	600,000	15,095,000	15,975,000	-	134,307	-	29,875	164,182	843,242	-	843,242	115,637,833	-	550,000	20,418,742	94,669,091	4,501,001	47,334,546	10.52	2,074,000	47,334,546	1.90	115,637,833	-
2034	82,960,410	600,000	15,095,000	15,975,000	-	109,009	-	29,875	138,884	868,539	-	868,539	115,637,833	-	550,000	20,418,742	94,669,091	4,501,001	47,334,546	10.52	2,074,000	47,334,546	1.90	115,637,833	-
2035	82,960,410	600,000	15,095,000	15,975,000	-	82,953	-	29,875	112,828	894,595	-	894,595	115,637,833	-	550,000	20,418,742	94,669,091	4,501,001	47,334,546	10.52	2,074,000	47,334,546	1.90	115,637,833	-
2036	82,960,410	600,000	15,095,000	15,975,000	-	56,115	-	29,875	85,990	921,433	-	921,433	115,637,833	-	550,000	20,418,742	94,669,091	4,501,001	47,334,546	10.52	2,074,000	47,334,546	1.90	115,637,833	-
2037	82,960,410	600,000	15,095,000	15,975,000	-	28,472	-	29,875	58,347	949,076	-	949,076	115,637,833	-	550,000	20,418,742	94,669,091	4,501,001	47,334,546	10.52	2,074,000	47,334,546	1.90	115,637,833	-
2038	82,960,410	600,000	15,095,000	15,975,000	-	28,472	-	29,875	58,347	949,076	-	949,076	115,637,833	-	550,000	20,418,742	94,669,091	4,501,001	47,334,546	10.52	2,074,000	47,334,546	1.90	115,637,833	-
2039	82,960,410	600,000	15,095,000	15,975,000	-	28,472	-	29,875	58,347	949,076	-	949,076	115,637,833	-	550,000	20,418,742	94,669,091	4,501,001	47,334,546	10.52	2,074,000	47,334,546	1.90	115,637,833	-
2040	82,960,410	600,000	15,095,000	15,975,000	-	28,472	-	29,875	58,347	949,076	-	949,076	115,637,833	-	550,000	20,418,742	94,669,091	4,501,001	47,334,546	10.52	2,074,000	47,334,546	1.90	115,637,833	-
2041	82,960,410	600,000	15,095,000	15,975,000	-	28,472	-	29,875	58,347	949,076	-	949,076	115,637,833	-	550,000	20,418,742	94,669,091	4,501,001	47,334,546	10.52	2,074,000	47,334,546	1.90	115,637,833	-
2042	82,960,410	600,000	15,095,000	15,975,000	-	28,472	-	29,875	58,347	949,076	-	949,076	115,637,833	-	550,000	20,418,742	94,669,091	4,501,001	47,334,546	10.52	2,074,000	47,334,546	1.90	115,637,833	-
2043	82,960,410	600,000	15,095,000	15,975,000	-	28,472	-	29,875	58,347	949,076	-	949,076	115,637,833	-	550,000	20,418,742	94,669,091	4,501,001	47,334,546	10.52	2,074,000	47,334,546	1.90	115,637,833	-
2044	82,960,410	600,000	15,095,000	15,975,000	-	28,472	-	29,875	58,347	949,076	-	949,076	115,637,833	-	550,000	20,418,742	94,669,091	4,501,001	47,334,546	10.52	2,074,000	47,334,546	1.90	115,637,833	-
2045	82,960,410	600,000	15,095,000	15,975,000	-	28,472	-	29,875	58,347	949,076	-	949,076	115,637,833	-	550,000	20,418,742	94,669,091	4,501,001	47,334,546	10.52	2,074,000	47,334,546	1.90	115,637,833	-
2046	82,960,410	600,000	15,095,000	15,975,000	-	28,472	-	29,875	58,347	949,076	-	949,076	115,637,833	-	550,000	20,418,742	94,669,091	4,501,001	47,334,546	10.52	2,074,000	47,334,546	1.90	115,637,833	-
2047	82,960,410	600,000	15,095,000	15,975,000	-	28,472	-	29,875	58,347	949,076	-	949,076	115,637,833	-	550,000	20,418,742	94,669,091	4,501,001	47,334,546	10.52	2,074,000	47,334,546	1.90	115,637,833	-
2048	82,960,410	600,000	15,095,000	15,975,000	-	28,472	-	29,875	58,347	949,076	-	949,076	115,637,833	-	550,000	20,418,742	94,669,091	4,501,001	47,334,546	10.52	2,074,000	47,334,546	1.90	115,637,833	-

*Some historical columns and rows are compressed for space.

Column headers include the following:

Column 1 – Operation and Maintenance (O&M) Expense

- i. Bureau of Reclamation (Reclamation) O&M, Administrative & General Expenses, Extraordinary Maintenance and post-retirement benefit (PRB) expenses
- ii. Western Area Power Administration (WAPA) Facility expenses, Systemwide expenses, replacements and PRB expenses

Column 3 – Other Expense: Reclamation Hoover Dam Visitor Services expenses

Column 4 – Replacements: Reclamation Replacements expenses

Column 6 – Debt Service Interest Expense: Reclamation Interest on Investment for Flood Control

Column 8 – Other Interest Expense: WAPA interest for Capital Moveable Equipment and Warehouse

Column 12 – Total Principle Payment: Reclamation Principle Payment for Flood Control

Column 16 – Other Revenue:

- i. Reclamation Hoover Dam Visitor Services revenue
- ii. WAPA non-power revenue including Ancillary Services

