

Western Area Power Administration  
 Boulder Canyon Project  
 FY 2023 Proposed Ratebase 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)	(26)	(27)		
Fiscal Year	O&M Expense	Payment to States	Other Expense	Upgrading Interest Payment	Upgrading Principal Payment	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	
Historical											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		
2011	42,689,343	600,000	7,613,259	5,231,995	9,926,799	5,024,202	-	10,949,281	-	10,641	10,959,922	1,960,285	-	1,960,285	84,005,806	4,119,778	699,847	17,033,527	62,152,654	3,810,978.00	37,591,261	9.86	1,645,000	37,591,261	1.90	92,915,896	8,910,090	
2012	48,337,666	600,000	6,777,063	4,872,558	10,436,524	6,329,748	-	10,870,781	-	10,152	10,880,933	1,931,322	-	1,931,322	90,165,813	7,384,217	601,130	15,327,614	66,852,852	4,003,600.00	42,268,386	10.56	1,910,167	42,268,386	1.84	100,465,516	10,299,703	
2013	46,002,923	600,000	7,498,685	3,962,636	11,058,222	10,386,694	-	11,179,372	-	10,188	11,189,560	1,910,139	-	1,910,139	92,608,859	13,062,333	599,094	15,051,641	63,895,792	3,871,041	41,189,819	10.64	1,752,417	41,189,819	1.96	98,030,372	5,421,513	
2014	45,458,035	600,000	6,342,643	3,375,635	11,348,748	7,207,058	-	5,149,273	-	14,090	5,163,363	125,984,203	-	125,984,203	205,479,685	18,691,070	661,259	139,868,581	46,258,774	3,770,993	38,054,010	10.09	1,693,667	38,054,010	1.87	216,637,859	11,158,174	
2015	58,017,873	600,000	7,306,122	2,827,588	12,007,899	7,558,159	-	593,239	-	23,270	616,509	2,123,637	-	2,123,637	91,057,787	30,965,794	677,492	16,934,301	42,480,200	3,747,208	30,504,259	8.14	1,581,750	30,504,259	1.61	78,620,311	(12,437,476)	
2016	53,166,249	600,000	7,962,163	2,596,094	12,396,477	3,123,107	-	548,467	-	27,421	575,888	2,241,595	-	2,241,595	82,661,573	23,452,354	635,097	18,460,488	40,113,634	3,476,763	31,867,928	9.17	1,541,500	31,867,928	1.72	82,831,441	169,868	
2017	52,016,586	600,000	8,204,563	198,927	5,035,084	6,047,715	-	460,284	-	28,549	488,833	1,686,528	-	1,686,528	74,278,235	23,817,193	578,390	17,662,786	32,219,867	3,547,892	34,831,145	9.82	1,534,000	34,831,145	1.89	87,903,465	13,625,229	
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	66,210,109	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	5,237,396	
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	20,984,029	62,093,766	3,264,831	33,677,889	10.32	1,383,000	33,677,889	2.03	88,889,807	(12,175,337)	
Forecast																												
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	5,262,012	550,000	21,218,742	66,365,220	3,103,826	33,182,610	10.69	1,299,750	33,182,610	2.13	88,133,962	(5,262,012)	
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	-	-	5,625,000	-	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	102,383,195	-	
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	81,875,494	600,000	14,461,000	-	-	4,375,000	-	-	-	29,089	29,089	-	-	-	101,340,583	-	550,000	20,350,689	80,439,894	4,501,001	40,219,947	8.94	2,074,000	40,219,947	1.62	101,340,583	-	
2039	81,875,494	600,000	14,461,000	-	-	4,375,000	-	-	-	29,089	29,089	-	-	-	101,340,583	-	550,000	20,350,689	80,439,894	4,501,001	40,219,947	8.94	2,074,000	40,219,947	1.62	101,340,583	-	
2040	81,875,494	600,000	14,461,000	-	-	4,375,000	-	-	-	29,089	29,089	-	-	-	101,340,583	-	550,000	20,350,689	80,439,894	4,501,001	40,219,947	8.94	2,074,000	40,219,947	1.62	101,340,583	-	
2041	81,875,494	600,000	14,461,000	-	-	4,375,000	-	-	-	29,089	29,089	-	-	-	101,340,583	-	550,000	20,350,689	80,439,894	4,501,001	40,219,947	8.94	2,074,000	40,219,947	1.62	101,340,583	-	
2042	81,875,494	600,000	14,461,000	-	-	4,375,000	-	-	-	29,089	29,089	-	-	-	101,340,583	-	550,000	20,350,689	80,439,894	4,501,001	40,219,947	8.94	2,074,000	40,219,947	1.62	101,340,583	-	
2043	81,875,494	600,000	1																									