

AVISTA UTILITIES

2023 Washington REC Filing

REDACTED

WORKPAPERS

May 31, 2023

CONFIDENTIAL per WAC 480-07-160

REC Revenues Rebate Allocation - Generation Level Consumption

Line No.	DESCRIPTION	TOTAL	RESIDENTIAL SCHEDULE 1, 2	GENERAL SVC. SCH. 11,12,13	LG. GEN. SVC. SCH. 21,22,23	EX LG GEN SVC SCHEDULE 25/25I	PUMPING SCH. 30, 31, 32	ST & AREA LTG SCH. 41-48	
A	B	C	D	E	F	H	I	J	
1	Generation Allocated								
2	Total Generation Percentage	100.00%	44.50%	11.30%	23.13%	17.86%	2.91%	0.30%	(1)
3	Total Rebate Amount (Grossed Up)	\$ (954,291)	\$ (424,680)	\$ (107,861)	\$ (220,697)	\$ (170,425)	\$ (27,743)	\$ (2,885)	
4	Annual Load (Rate Year)	5,769,559,429	2,571,839,025	680,574,752	1,317,920,330	1,035,484,092	147,885,234	15,855,997	(2)
5	Cents Per kWh Rate		\$ (0.00017)	\$ (0.00016)	\$ (0.00017)	\$ (0.00016)	\$ (0.00019)	\$ (0.00018)	
6	Total Bills	3,233,318	2,757,141	425,251	20,374	264	30,288		
7	Avg Monthly Credit Per Customer		\$ (0.15)	\$ (0.25)	\$ (10.83)	\$ (645.55)	\$ (0.92)		
8	Avg Annual Credit Per Customer		\$ (1.85)	\$ (3.04)	\$ (129.99)	\$ (7,746.60)	\$ (10.99)		
9									
10	Proposed Cents per kWh Rate		\$ (0.00017)	\$ (0.00016)	\$ (0.00017)	\$ (0.00016)	\$ (0.00019)	\$ (0.00018)	
11	Present Cents per kWh Rate		\$ (0.00062)	\$ (0.00060)	\$ (0.00066)	\$ (0.00062)	\$ (0.00061)	\$ (0.00071)	
12	Difference in Rate		\$ 0.00045	\$ 0.00044	\$ 0.00049	\$ 0.00046	\$ 0.00042	\$ 0.00053	
13	Change in Revenue	\$ 2,657,260	\$ 1,165,231	\$ 300,484	\$ 649,130	\$ 471,575	\$ 62,467	\$ 8,373	

Present Billed Revenue	\$	574,128,000	\$	268,876,000	\$	86,893,000	\$	130,352,000	\$	68,027,000	\$	13,148,000	\$	6,832,000
Billed Percentage Change		0.5%		0.4%		0.3%		0.5%		0.7%		0.5%		0.12%
Residential Bill Impact (932 kWh's)	\$			0.42										
Residential Bill Percentage Change				0.5%										

- (1) UE-220053 Cost of Service Study
E02 Generation Allocator
- (2) August 1, 2023 through July 31, 2024 Forecasted Loads (input)

<u>Present Bill</u>	
Basic Charge	\$ 9.00
1st 800 kWhs	\$ 0.08355
Next 700 kWhs	\$ 0.09836
Bill at 932 kWhs	\$ 88.82
Plus Bill Impact	\$ 0.42 0.5%
Proposed Bill after Rate Adjustment	\$ 89.24

CONFIDENTIAL per WAC 480-07-160

Gray shaded box is Confidential per WAC-480-07-160

	<u>aMW</u>	<u>Rate</u>	<u>Total</u>	<u>Apr-23</u>	<u>May-23</u>	<u>Jun-23</u>	<u>Jul-23</u>
Morgan Stanley							
System Total			(\$1,340,000)				
PT Ratio				65.54%	65.54%	65.54%	65.54%
				\$209,728	\$262,160	\$222,836	\$183,512
Washington Share	UE-220053	65.54%	-\$209,728	-\$262,160	-\$222,836	-\$183,512	
Gross Up Factor	UE-220053	0.956069	0.956069	0.956069	0.956069	0.956069	0.95606855
Grossed Up Revenue Requirement			(\$918,591)	(\$219,365)	(\$274,206)	(\$233,075)	(\$191,944)

Proposed Bill after Rate Adjustment

CONFIDENTIAL per WAC 480-07-160

Gray shaded box is Confidential per WAC-480-07-160

		Total	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24
Morgan Stanley														
System Total		(\$660,000)												
PT Ratio ¹	UE-220053	65.54%	\$131,080	\$104,864	\$65,540	\$65,540	\$65,540	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Washington Share		(\$432,564)												
Forecast End of June Balance		(\$456,560)												
REC Balance to be Recovered		(\$889,124)												
Forecasted Interest Calculation		(\$23,244)												
Total REC Balance to be Recovered		(\$912,368)												
Gross Up Factor	UE-220053	0.956069												
Grossed Up Revenue Requirement		(\$954,291)												

¹Remains consistent with ERM Authorized Power Supply Base

	2022	2023	2023	2023	2023	2023	2023	Compound	2023	2023	2023	2023	2023	Compound	2024	2024	2024	2024	2024
	End December	End January	End February	End March	End April	End May	End June	End July	End August	End September	End October	End November	End December	End January	End February	End March	End April	End May	End June
Expected net elec REC Amortization credit	\$ (391,172)	\$ (257,793)	\$ (344,114)	\$ (256,968)	\$ (250,940)	\$ (260,186)	\$ (294,563)	\$ (81,176)	\$ (68,012)	\$ (70,103)	\$ (79,010)	\$ (89,440)	\$ (90,423)	\$ (80,310)	\$ (75,565)	\$ (67,527)	\$ (66,052)	\$ (68,345)	
REC Sales	\$ (2,075)	\$ 585,737	\$ 158,494	\$ 209,728	\$ 262,160	\$ 222,836	\$ 183,512	\$ 131,080	\$ 104,864	\$ 65,540	\$ 65,540	\$ 65,540	\$ 65,540	\$ -	\$ -	\$ -	\$ -	\$ -	
Net change in balance	\$ (393,246)	\$ 327,944	\$ (185,620)	\$ (47,240)	\$ 11,220	\$ (37,350)	\$ (111,051)	\$ 49,904	\$ 36,852	\$ (4,563)	\$ (13,470)	\$ (23,900)	\$ (90,423)	\$ (80,310)	\$ (75,565)	\$ (67,527)	\$ (66,052)	\$ (68,345)	
Cumulative Balance (Before Interest)	\$ 475,513	\$ 803,457	\$ 617,838	\$ 570,598	\$ 581,819	\$ 544,469	\$ 453,796	\$ 503,700	\$ 540,552	\$ 535,989	\$ 522,519	\$ 498,620	\$ 424,954	\$ 344,644	\$ 269,079	\$ 201,552	\$ 135,500	\$ 67,155	
Interest	\$ 3,647	\$ 3,470	\$ 3,856	\$ 3,224	\$ 3,126	\$ 3,056	\$ 2,764	\$ 2,598	\$ 2,833	\$ 2,921	\$ 2,872	\$ 2,770	\$ 2,551	\$ 2,088	\$ 1,665	\$ 1,277	\$ 914	\$ 550	
REC Revenue Balance	\$ 868,759	\$ 479,160	\$ 810,574	\$ 628,810	\$ 584,795	\$ 599,142	\$ 564,847	\$ 456,560	\$ 509,061	\$ 548,746	\$ 547,104	\$ 536,506	\$ 515,377	\$ 427,505	\$ 349,283	\$ 275,383	\$ 209,132	\$ 143,995	\$ 76,200

Acct 186322	\$ (1,107,117)	\$ (720,891)	\$ (466,283)	\$ (123,722)
Acct 186323	\$ -	\$ -	\$ -	\$ -
Acct 186324	\$ 238,358	\$ 241,731	\$ (344,291)	\$ (505,088)
Balance Sheet	\$ (868,759)	\$ (479,160)	\$ (810,574)	\$ (628,810)
	\$ -	\$ 0	\$ 0	\$ 0

Projected end of July 2023 Balance	\$ 456,560
August 2023 - July 2024 REC Revenue Forecast	\$ 432,564
August 2023- July 2024 Amortization Credit	\$ (912,368)
Interest on Previous Months Balance	\$ 23,244
Total Projected REC Balance as of June 2023	\$ -

	UE-220053	UE-200900	
	12/21/2022	10/1/2021	
Per rate order, REC rate is after tax cost of capital	6.5111%	6.5814%	
The monthly rate is:	0.0054259	0.0054845	
12/1/2022 - 12/20/2022	6.5814%	0.64516129	4.2461%

(Formulas from kWh Forecast)

Forecasted Usage	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24
Residential Schedule 001/002	181,583,685	162,022,515	159,931,912	198,158,177	216,731,951	164,017,441	174,053,254	236,773,377	298,266,779	302,171,652	255,730,234	225,395,651	181,906,627	163,109,109	160,836,286	192,846,665
General Svc Schedule 011/012	50,808,436	49,109,076	49,953,955	57,741,452	57,339,320	51,272,987	52,608,255	59,878,691	67,435,321	66,133,911	60,885,911	57,688,794	50,347,561	48,824,704	50,227,686	57,931,610
Large Gen Svc Schedule 021/022	104,269,710	108,413,207	111,040,385	120,789,739	111,952,115	105,129,212	116,328,471	116,509,336	112,361,609	108,840,193	107,061,683	104,587,214	101,691,845	106,046,620	109,214,002	118,198,031
Extra Large Gen Schedule 25/251	84,867,685	84,074,970	90,024,038	88,297,285	95,443,061	83,739,469	87,408,384	84,996,016	84,617,796	91,017,408	79,822,758	85,787,474	86,045,432	84,031,959	86,651,976	85,922,359
Pumping Schedule 31/32	6,023,493	13,502,437	21,744,100	25,491,748	28,414,340	22,894,573	11,407,152	1,659,747	3,324,665	3,996,029	4,398,902	4,240,883	6,327,668	13,808,148	22,265,302	25,147,825
Street and Area Lights	1,302,576	1,305,319	1,315,165	1,319,523	1,343,017	1,345,901	1,314,323	1,330,330	1,338,864	1,340,188	1,272,099	1,353,925	1,292,840	1,297,018	1,313,153	1,314,340
Total Forecasted Usage	428,855,585	418,427,524	434,009,555	491,797,924	511,223,804	428,399,583	443,119,838	501,147,498	567,345,035	573,499,381	509,171,586	479,053,941	427,611,972	417,117,557	430,508,404	481,360,831

REC Revenue Amortization Rates	Present								Proposed								
Residential Schedule 001/002	-0.00062	-0.00062	-0.00062	-0.00062	-0.00017	-0.00017	-0.00017	-0.00017	-0.00017	-0.00017	-0.00017	-0.00017	-0.00017	-0.00017	-0.00017	-0.00017	-0.00017
General Svc Schedule 011/012	-0.00060	-0.00060	-0.00060	-0.00060	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016
Large Gen Svc Schedule 021/022	-0.00066	-0.00066	-0.00066	-0.00066	-0.00017	-0.00017	-0.00017	-0.00017	-0.00017	-0.00017	-0.00017	-0.00017	-0.00017	-0.00017	-0.00017	-0.00017	-0.00017
Extra Large Gen Schedule 25/251	-0.00062	-0.00062	-0.00062	-0.00062	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016	-0.00016
Pumping Schedule 31/32	-0.00061	-0.00061	-0.00061	-0.00061	-0.00019	-0.00019	-0.00019	-0.00019	-0.00019	-0.00019	-0.00019	-0.00019	-0.00019	-0.00019	-0.00019	-0.00019	-0.00019
Street and Area Lights	-0.00071	-0.00071	-0.00071	-0.00071	-0.00018	-0.00018	-0.00018	-0.00018	-0.00018	-0.00018	-0.00018	-0.00018	-0.00018	-0.00018	-0.00018	-0.00018	-0.00018

Gross REC Revenue Amortization Credit	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24
Residential Schedule 001	\$ (112,255)	\$ (100,162)	\$ (98,870)	\$ (122,501)	\$ (35,788)	\$ (27,084)	\$ (28,741)	\$ (39,098)	\$ (49,252)	\$ (49,897)	\$ (42,228)	\$ (37,219)	\$ (30,038)	\$ (26,934)	\$ (26,558)	\$ (31,844)
General Svc Schedule 011/012	\$ (30,485)	\$ (29,465)	\$ (29,972)	\$ (34,645)	\$ (9,087)	\$ (8,126)	\$ (8,338)	\$ (9,490)	\$ (10,687)	\$ (10,481)	\$ (9,650)	\$ (9,143)	\$ (7,979)	\$ (7,738)	\$ (7,960)	\$ (9,181)
Large Gen Svc Schedule 021/022	\$ (68,818)	\$ (71,553)	\$ (73,287)	\$ (79,721)	\$ (18,747)	\$ (17,605)	\$ (19,480)	\$ (19,511)	\$ (18,816)	\$ (18,226)	\$ (17,928)	\$ (17,514)	\$ (17,029)	\$ (17,758)	\$ (18,289)	\$ (19,793)
Extra Large Gen Schedule 25/251	\$ (52,618)	\$ (52,126)	\$ (55,815)	\$ (54,744)	\$ (15,709)	\$ (13,782)	\$ (14,386)	\$ (13,989)	\$ (13,927)	\$ (14,980)	\$ (13,138)	\$ (14,119)	\$ (14,162)	\$ (13,830)	\$ (14,262)	\$ (14,142)
Pumping Schedule 31/32	\$ (3,674)	\$ (8,236)	\$ (13,264)	\$ (15,550)	\$ (5,331)	\$ (4,295)	\$ (2,140)	\$ (311)	\$ (624)	\$ (750)	\$ (825)	\$ (796)	\$ (1,187)	\$ (2,590)	\$ (4,177)	\$ (4,718)
Street and Area Lights	\$ (925)	\$ (927)	\$ (934)	\$ (937)	\$ (244)	\$ (245)	\$ (239)	\$ (242)	\$ (244)	\$ (244)	\$ (231)	\$ (246)	\$ (235)	\$ (236)	\$ (239)	\$ (239)
Total	\$ (268,775)	\$ (262,470)	\$ (272,142)	\$ (308,099)	\$ (84,906)	\$ (71,137)	\$ (73,324)	\$ (82,641)	\$ (93,549)	\$ (94,578)	\$ (84,000)	\$ (79,037)	\$ (70,630)	\$ (69,087)	\$ (71,485)	\$ (79,917)

Net REC Revenue Amortization Credit	0.956069	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24
Residential Schedule 001	\$ (107,324)	\$ (95,762)	\$ (94,526)	\$ (117,120)	\$ (34,216)	\$ (25,894)	\$ (27,478)	\$ (37,380)	\$ (47,088)	\$ (47,705)	\$ (40,373)	\$ (35,584)	\$ (28,718)	\$ (25,750)	\$ (25,392)	\$ (30,445)	
General Svc Schedule 011/012	\$ (29,146)	\$ (28,171)	\$ (28,656)	\$ (33,123)	\$ (8,688)	\$ (7,769)	\$ (7,971)	\$ (9,073)	\$ (10,218)	\$ (10,021)	\$ (9,226)	\$ (8,741)	\$ (7,629)	\$ (7,398)	\$ (7,611)	\$ (8,778)	
Large Gen Svc Schedule 021/022	\$ (65,795)	\$ (68,409)	\$ (70,067)	\$ (76,219)	\$ (17,924)	\$ (16,831)	\$ (18,624)	\$ (18,653)	\$ (17,989)	\$ (17,426)	\$ (17,141)	\$ (16,745)	\$ (16,281)	\$ (16,978)	\$ (17,485)	\$ (18,924)	
Extra Large Gen Schedule 25/251	\$ (50,306)	\$ (49,836)	\$ (53,363)	\$ (52,339)	\$ (15,018)	\$ (13,177)	\$ (13,754)	\$ (13,375)	\$ (13,315)	\$ (14,322)	\$ (12,560)	\$ (13,499)	\$ (13,540)	\$ (13,223)	\$ (13,635)	\$ (13,520)	
Pumping Schedule 31/32	\$ (3,513)	\$ (7,875)	\$ (12,681)	\$ (14,867)	\$ (5,096)	\$ (4,106)	\$ (2,046)	\$ (298)	\$ (596)	\$ (717)	\$ (789)	\$ (761)	\$ (1,135)	\$ (2,477)	\$ (3,993)	\$ (4,510)	
Street and Area Lights	\$ (884)	\$ (886)	\$ (893)	\$ (896)	\$ (234)	\$ (234)	\$ (229)	\$ (231)	\$ (233)	\$ (233)	\$ (221)	\$ (236)	\$ (225)	\$ (226)	\$ (228)	\$ (229)	
Total	\$ (256,968)	\$ (250,940)	\$ (260,186)	\$ (294,563)	\$ (81,176)	\$ (68,012)	\$ (70,103)	\$ (79,010)	\$ (89,440)	\$ (90,423)	\$ (80,310)	\$ (75,565)	\$ (67,527)	\$ (66,052)	\$ (68,345)	\$ (76,406)	

**AVISTA UTILITIES
 CALCULATION OF CONVERSION FACTOR: WASHINGTON ELECTRIC
 TWELVE MONTHS ENDED SEPTEMBER 30, 2021 (Effective 12/21/22)**

		Approved In UE-220053
Revenue:		1.000000
Expense:		
Uncollectibles (1)		0.003326
Commission Fees (2)		0.002000
Washington Excise Tax (3)		0.038605
Total Expense		<u>0.043931</u>
Net Operating Income Before FIT		0.956069
Federal Income Tax @	21.00%	0.200774
REVENUE CONVERSION FACTOR		<u>0.755294</u>

Proposed Bill after Rate Adjustment