

AVISTA UTILITIES

2022 Washington REC Filing

REDACTED

WORKPAPERS

March 31, 2022

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%	42.69%	11.08%	24.38%	19.04%	2.49%	0.32%	(1)
3	Total Rebate Amount (Grossed Up)	\$ (3,600,275)	\$ (1,536,900)	\$ (398,998)	\$ (877,862)	\$ (685,411)	\$ (89,580)	\$ (11,524)	
4	Annual Load (Rate Year)	5,741,097,059	2,486,185,618	660,467,391	1,331,194,620	1,099,039,079	148,029,591	16,180,760	(2)
5	Cents Per kWh Rate		\$ (0.00062)	\$ (0.00060)	\$ (0.00066)	\$ (0.00062)	\$ (0.00061)	\$ (0.00071)	
6	Total Bills	3,208,773	2,741,167	414,934	21,925	276	30,471		
7	Avg Monthly Credit Per Customer		\$ (0.56)	\$ (0.96)	\$ (40.04)	\$ (2,483.37)	\$ (2.94)		
8	Avg Annual Credit Per Customer		\$ (6.73)	\$ (11.54)	\$ (480.48)	\$ (29,800.48)	\$ (35.28)		
9									
10	Proposed Cents per kWh Rate		\$ (0.00062)	\$ (0.00060)	\$ (0.00066)	\$ (0.00062)	\$ (0.00061)	\$ (0.00071)	
11	Present Cents per kWh Rate		\$ (0.00015)	\$ (0.00015)	\$ (0.00016)	\$ (0.00016)	\$ (0.00016)	\$ (0.00018)	
12	Difference in Rate		\$ (0.00047)	\$ (0.00045)	\$ (0.00050)	\$ (0.00046)	\$ (0.00045)	\$ (0.00053)	
13	Change in Revenue	\$ (2,712,843)	\$ (1,163,972)	\$ (299,928)	\$ (664,871)	\$ (509,565)	\$ (65,895)	\$ (8,612)	

Present Billed Revenue	\$	547,523,000	\$	229,537,000	\$	82,480,000	\$	148,099,000	\$	67,358,000	\$	13,420,000	\$	6,629,000
Billed Percentage Change		-0.5%		-0.5%		-0.4%		-0.4%		-0.8%		-0.5%		-0.1%
Residential Bill Impact (932 kWh's)	\$			(0.44)										
Residential Bill Percentage Change				-0.5%										

- (1) UE-200900 Cost of Service Study
E02 Generation Allocator
- (2) July 1, 2022 through June 30, 2023 Forecasted Loads (input)

<u>Present Bill</u>	
Basic Charge	\$ 9.00
1st 800 kWhs	\$ 0.08022
Next 700 kWhs	\$ 0.09346
Bill at 932 kWhs	\$ 85.52
Plus Bill Impact	\$ (0.44) -0.5%
Proposed Bill after Rate Adjustment	\$ 85.08

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

	aMW	Rate	Total	Mar-22	Apr-22	May-22	Jun-22
Morgan Stanley							
Shell							
Carbon Solutions							
3Degrees							
Go2Markets							
Interstate Gas							
Frontier Technology							
System Total			(\$1,179,247)				
PT Ratio				65.64%	65.64%	65.64%	65.64%
				\$60,354	\$547,195	\$60,435	\$106,074
Washington Share	UE-200900	65.64%	-\$60,354	-\$547,195	-\$60,435	-\$106,074	
Gross Up Factor	UE-200900	0.956069	0.956069	0.956069	0.956069	0.956069	0.95606855
Grossed Up Revenue Requirement			(\$809,626)	(\$63,127)	(\$572,339)	(\$63,212)	(\$110,948)

Proposed Bill after Rate Adjustment

CONFIDENTIAL per WAC 480-07-160

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

		<u>Total</u>	<u>Jul-22</u>	<u>Aug-22</u>	<u>Sep-22</u>	<u>Oct-22</u>	<u>Nov-22</u>	<u>Dec-22</u>	<u>Jan-23</u>	<u>Feb-23</u>	<u>Mar-23</u>	<u>Apr-23</u>	<u>May-23</u>	<u>Jun-23</u>
Morgan Stanley Spark Energy, LLC														
System Total		(\$601,129)												
PT Ratio ¹	UE-200900	65.64%	\$60,435	\$60,435	\$173,355	\$60,435	\$39,922	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Washington Share		(\$394,581)												
Forecast End of June Balance		(\$2,945,129)												
REC Balance to be Recovered		(\$3,339,710)												
Forecasted Interest Calculation		(\$102,400)												
Total REC Balance to be Recovered		(\$3,442,110)												
Gross Up Factor	UE-200900	0.956069												
Grossed Up Revenue Requirement		(\$3,600,275)												

¹Remains consistent with ERM Authorized Power Supply Base

	2021	2022	2022	2022	2022	2022	2022	Compound	2022	2022	2022	2022	Compound	2023	2023	2023	2023	2023	
	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	\$ -	\$ (83,763)	\$ (77,185)	\$ (71,054)	\$ (62,997)	\$ (60,939)	\$ (63,782)	\$ (288,574)	\$ (292,277)	\$ (254,278)	\$ (267,100)	\$ (296,159)	\$ (341,364)	\$ (340,868)	\$ (300,961)	\$ (292,089)	\$ (260,500)	\$ (251,338)	\$ (256,601)
Forecast Annual REC Sales	\$ -	\$ 920,607	\$ 200,585	\$ 60,354	\$ 547,195	\$ 60,435	\$ 106,074	\$ 60,435	\$ 60,435	\$ 173,355	\$ 60,435	\$ 39,922	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net change in balance	\$ -	\$ 836,844	\$ 123,399	\$ (10,701)	\$ 484,199	\$ (504)	\$ 42,293	\$ (228,139)	\$ (231,842)	\$ (80,923)	\$ (206,665)	\$ (256,237)	\$ (341,364)	\$ (340,868)	\$ (300,961)	\$ (292,089)	\$ (260,500)	\$ (251,338)	\$ (256,601)
Cumulative Balance (Before Interest)	\$ -	\$ 2,225,039	\$ 2,348,438	\$ 2,337,737	\$ 2,821,936	\$ 2,821,432	\$ 2,863,725	\$ 2,716,989	\$ 2,485,147	\$ 2,404,224	\$ 2,197,559	\$ 1,941,322	\$ 1,599,958	\$ 1,335,970	\$ 1,035,009	\$ 742,920	\$ 482,420	\$ 231,081	\$ (25,520)
Interest	\$ -	\$ 10,018	\$ 12,680	\$ 12,992	\$ 14,305	\$ 15,646	\$ 15,762	\$ 15,527	\$ 14,266	\$ 13,408	\$ 12,619	\$ 11,350	\$ 9,711	\$ 8,262	\$ 6,502	\$ 4,876	\$ 3,360	\$ 1,957	\$ 564
REC Revenue Balance	\$ 1,388,195	\$ 2,235,056	\$ 2,371,136	\$ 2,373,428	\$ 2,871,931	\$ 2,887,074	\$ 2,945,129	\$ 2,732,516	\$ 2,514,940	\$ 2,447,425	\$ 2,253,379	\$ 2,008,491	\$ 1,676,838	\$ 1,344,232	\$ 1,049,773	\$ 762,559	\$ 505,419	\$ 256,037	\$ 0
Acct 186323	\$ (1,440,095)																		
Acct 186322	\$ 51,900																		
Balance Sheet	\$ (1,388,195)																		

Projected end of June 2022 Balance	\$ 2,945,129
July 2022 - June 2023 REC Revenue Forecast	\$ 394,581
July 2022 - June 2023 Amortization Credit	\$ (3,442,110)
Interest on Previous Months Balance	\$ 102,400
Total Projected REC Balance as of June 2023	\$ -

	UE-200900	UE-190334
	10/1/2021	4/1/2021
Per rate order, REC rate is after tax cost of capital	6.5814%	6.654%
The monthly rate is:	0.0054845	0.0055450

(Formulas from kWh Forecast)

Forecasted Usage	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23
Residential Schedule 001/002	224,756,401	176,575,372	152,022,025	150,716,897	182,932,279	193,486,192	154,482,080	169,318,554	227,562,562	299,116,612	298,003,511	244,986,435	228,414,912	180,573,462	156,960,303	150,348,716
General Svc Schedule 011/012	57,779,677	48,618,414	48,313,810	48,812,524	58,537,947	55,274,882	49,507,452	51,757,688	57,320,203	64,275,957	63,284,871	57,785,598	57,456,454	48,788,231	47,995,104	48,483,003
Large Gen Svc Schedule 021/022	105,941,341	101,855,251	106,605,472	111,731,499	121,106,310	111,608,860	105,554,704	120,359,449	114,894,534	110,475,668	108,055,970	107,291,617	107,871,931	103,476,302	108,414,369	112,084,906
Extra Large Gen Schedule 25	87,840,718	91,494,252	88,055,768	93,423,395	89,941,345	97,019,597	90,150,429	91,063,935	91,148,665	92,522,490	95,206,581	87,005,774	88,133,325	93,959,056	89,991,877	92,896,005
Pumping Schedule 31/32	4,294,599	5,841,785	14,367,504	23,215,596	27,189,720	29,134,141	22,718,449	10,434,329	1,482,929	2,916,636	4,095,914	4,131,472	4,183,210	5,936,906	13,716,048	22,089,836
Street and Area Lights	1,369,266	1,343,257	1,354,554	1,353,240	1,371,135	1,360,731	1,373,402	1,347,606	1,342,715	1,394,119	1,361,427	1,293,479	1,358,590	1,323,630	1,328,337	1,325,590
Total Forecasted Usage	481,982,003	425,728,331	410,719,133	429,253,150	481,078,735	487,884,403	423,786,516	444,281,561	493,751,608	570,701,482	570,008,274	502,494,375	487,418,422	434,057,587	418,406,038	427,228,057

REC Revenue Amortization Rates	Present								Proposed								
Residential Schedule 001/002	-0.00015	-0.00015	-0.00015	-0.00015	-0.00062	-0.00062	-0.00062	-0.00062	-0.00062	-0.00062	-0.00062	-0.00062	-0.00062	-0.00062	-0.00062	-0.00062	-0.00062
General Svc Schedule 011/012	-0.00015	-0.00015	-0.00015	-0.00015	-0.00060	-0.00060	-0.00060	-0.00060	-0.00060	-0.00060	-0.00060	-0.00060	-0.00060	-0.00060	-0.00060	-0.00060	-0.00060
Large Gen Svc Schedule 021/022	-0.00016	-0.00016	-0.00016	-0.00016	-0.00066	-0.00066	-0.00066	-0.00066	-0.00066	-0.00066	-0.00066	-0.00066	-0.00066	-0.00066	-0.00066	-0.00066	-0.00066
Extra Large Gen Schedule 25	-0.00016	-0.00016	-0.00016	-0.00016	-0.00062	-0.00062	-0.00062	-0.00062	-0.00062	-0.00062	-0.00062	-0.00062	-0.00062	-0.00062	-0.00062	-0.00062	-0.00062
Pumping Schedule 31/32	-0.00016	-0.00016	-0.00016	-0.00016	-0.00061	-0.00061	-0.00061	-0.00061	-0.00061	-0.00061	-0.00061	-0.00061	-0.00061	-0.00061	-0.00061	-0.00061	-0.00061
Street and Area Lights	-0.00018	-0.00018	-0.00018	-0.00018	-0.00071	-0.00071	-0.00071	-0.00071	-0.00071	-0.00071	-0.00071	-0.00071	-0.00071	-0.00071	-0.00071	-0.00071	-0.00071

Gross REC Revenue Amortization Credit	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23
Residential Schedule 001	\$ (33,713)	\$ (26,486)	\$ (22,803)	\$ (22,608)	\$ (113,084)	\$ (119,608)	\$ (95,497)	\$ (104,669)	\$ (140,674)	\$ (184,907)	\$ (184,219)	\$ (151,445)	\$ (141,201)	\$ (111,626)	\$ (97,029)	\$ (92,942)
General Svc Schedule 011/012	\$ (8,667)	\$ (7,293)	\$ (7,247)	\$ (7,322)	\$ (35,364)	\$ (33,392)	\$ (29,908)	\$ (31,268)	\$ (34,628)	\$ (38,830)	\$ (38,231)	\$ (34,909)	\$ (34,710)	\$ (29,474)	\$ (28,995)	\$ (29,289)
Large Gen Svc Schedule 021/022	\$ (16,951)	\$ (16,297)	\$ (17,057)	\$ (17,877)	\$ (79,864)	\$ (73,601)	\$ (69,609)	\$ (79,372)	\$ (75,768)	\$ (72,854)	\$ (71,258)	\$ (70,754)	\$ (71,137)	\$ (68,238)	\$ (71,494)	\$ (73,915)
Extra Large Gen Schedule 25	\$ (14,055)	\$ (14,639)	\$ (14,089)	\$ (14,948)	\$ (56,092)	\$ (60,506)	\$ (56,222)	\$ (56,792)	\$ (56,844)	\$ (57,701)	\$ (59,375)	\$ (54,261)	\$ (54,964)	\$ (58,597)	\$ (56,123)	\$ (57,934)
Pumping Schedule 31/32	\$ (687)	\$ (935)	\$ (2,299)	\$ (3,714)	\$ (16,454)	\$ (17,630)	\$ (13,748)	\$ (6,314)	\$ (897)	\$ (1,765)	\$ (2,479)	\$ (2,500)	\$ (2,531)	\$ (3,593)	\$ (8,300)	\$ (13,368)
Street and Area Lights	\$ (246)	\$ (242)	\$ (244)	\$ (244)	\$ (977)	\$ (969)	\$ (978)	\$ (960)	\$ (956)	\$ (993)	\$ (970)	\$ (921)	\$ (968)	\$ (943)	\$ (946)	\$ (944)
Total	\$ (74,319)	\$ (65,891)	\$ (63,739)	\$ (66,712)	\$ (301,834)	\$ (305,707)	\$ (265,962)	\$ (279,374)	\$ (309,768)	\$ (357,050)	\$ (356,531)	\$ (314,790)	\$ (305,511)	\$ (272,470)	\$ (262,887)	\$ (268,392)

Net REC Revenue Amortization Credit	0.956069	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23
Residential Schedule 001	\$ (32,232)	\$ (25,323)	\$ (21,802)	\$ (21,614)	\$ (108,116)	\$ (114,354)	\$ (91,302)	\$ (100,070)	\$ (134,494)	\$ (176,783)	\$ (176,126)	\$ (144,791)	\$ (134,997)	\$ (106,722)	\$ (92,766)	\$ (88,859)	
General Svc Schedule 011/012	\$ (8,286)	\$ (6,972)	\$ (6,929)	\$ (7,000)	\$ (33,810)	\$ (31,925)	\$ (28,594)	\$ (29,894)	\$ (33,107)	\$ (37,124)	\$ (36,552)	\$ (33,376)	\$ (33,185)	\$ (28,179)	\$ (27,721)	\$ (28,003)	
Large Gen Svc Schedule 021/022	\$ (16,206)	\$ (15,581)	\$ (16,308)	\$ (17,092)	\$ (76,356)	\$ (70,368)	\$ (66,551)	\$ (75,885)	\$ (72,439)	\$ (69,653)	\$ (68,128)	\$ (67,646)	\$ (68,011)	\$ (65,240)	\$ (68,353)	\$ (70,668)	
Extra Large Gen Schedule 25	\$ (13,437)	\$ (13,996)	\$ (13,470)	\$ (14,291)	\$ (53,627)	\$ (57,848)	\$ (53,752)	\$ (54,297)	\$ (54,347)	\$ (55,166)	\$ (56,767)	\$ (51,877)	\$ (52,549)	\$ (56,023)	\$ (53,657)	\$ (55,389)	
Pumping Schedule 31/32	\$ (657)	\$ (894)	\$ (2,198)	\$ (3,551)	\$ (15,731)	\$ (16,856)	\$ (13,144)	\$ (6,037)	\$ (858)	\$ (1,687)	\$ (2,370)	\$ (2,390)	\$ (2,420)	\$ (3,435)	\$ (7,936)	\$ (12,780)	
Street and Area Lights	\$ (236)	\$ (231)	\$ (233)	\$ (233)	\$ (934)	\$ (927)	\$ (935)	\$ (918)	\$ (914)	\$ (949)	\$ (927)	\$ (881)	\$ (925)	\$ (901)	\$ (904)	\$ (903)	
Total	\$ (71,054)	\$ (62,997)	\$ (60,939)	\$ (63,782)	\$ (288,574)	\$ (292,277)	\$ (254,278)	\$ (267,100)	\$ (296,159)	\$ (341,364)	\$ (340,868)	\$ (300,961)	\$ (292,089)	\$ (260,500)	\$ (251,338)	\$ (256,601)	

**AVISTA UTILITIES
 CALCULATION OF CONVERSION FACTOR: WASHINGTON ELECTRIC
 TWELVE MONTHS ENDED DECEMBER 31, 2019 (Effective 10/01/21)**

		Approved In UE-200900
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