

Impact of 24-Month Studies on the Deliverable Sales Amount (DSA)

Thomas Hackett, CRSP Rates Manager

CRSP Customer Meeting

February 15, 2022 (slide 9 updated 2/16/2022)



Transparency

- In WAPA-199 we stated we would post Reclamation's 24-month Studies to the Web
- <https://www.wapa.gov/regions/CRSP/rates/Pages/24-month-study.aspx>
- Current data is through January
- Will send out email when monthly updates are made.



24-month Study		Aug-21				Sep-21	Oct-21	Nov-21	Dec-21	Jan-22		
		Rate Setting		12.36	Purchased to meet DSA							
Calendar Year		Projected Total Generation MWh	Difference in Rate to DSA MWh sent to Customers	DSA Actual MWh	Lost Revenue @ WAPA-199 Rate (\$)	Total Net Includes Losses MWh	Total Net Includes Losses \$	Projected Generation	Projected Generation	Projected Generation	Projected Generation	Projected Generation
	2021	Dec-21	266,215	(7,466)	258,749	(92,275)	22,123 \$	463,551.41	266,935	265,293	267,920	267,920
2022	Jan-22	309,433	(39,206)		(484,587)	6,579 \$	369,749.43	310,233	307,720	270,227	291,399	286,573
2022	Feb-22	273,966	(52,276)		(646,131)	3,728 \$	195,469.73	274,289	272,641	221,690	237,366	236,915
2022	Mar-22	295,657	(52,723)		(651,660)	3,862 \$	309,789.34	295,393	292,804	242,934	258,388	259,861
	Winter total	1,650,069	(151,671)		(1,874,654)	36,293	1,338,560	1,647,507	1,631,787	1,545,498	1,540,754	1,521,004
2022	Apr-22	291,212	(36,420)		(450,155)			290,914	287,500	264,393	260,722	254,791
2022	May-22	389,173	91,791		1,134,534			388,947	393,240	388,833	365,006	480,964
2022	Jun-22	376,375	21,646		267,540			373,472	371,110	438,673	352,722	398,021
2022	Jul-22	389,899	54,971		679,440			388,488	385,393	434,582	421,013	444,870
2022	Aug-22	415,963	55,152		681,684			411,916	408,104	460,693	438,814	471,116
2022	Sep-22	324,725	52,000		642,721			325,866	319,447	356,851	340,850	376,726
	Summer Total	2,187,348	239,139		2,955,764			2,179,604	2,164,794	2,344,025	2,179,127	2,426,487
	WY22 Total	3,837,417	102,400		1,081,110			3,827,111	3,796,582	3,889,524	3,719,881	3,947,492
2022	Oct-22	272,687	9,678		119,617			272,263	268,013	274,824	262,046	282,365
2022	Nov-22	231,689	7,401		91,475			231,325	229,770	234,585	221,801	239,090
2022	Dec-22	273,561	12,748		157,568			276,100	279,002	281,735	268,992	286,310
2023	Jan-23	316,875	14,153		174,926			319,724	334,757	325,162	303,387	331,027
2023	Feb-23	281,920	12,685		156,785			284,254	296,659	289,302	269,925	294,605
2023	Mar-23	316,599	(11,190)		(138,306)			312,396	305,023	298,396	277,212	305,409
	Winter total	1,693,332	45,475		562,066			1,696,063	1,713,225	1,704,004	1,603,362	1,738,807
2023	Apr-23	313,625	(11,717)		(144,827)			309,175	300,171	295,191	276,692	301,907
2023	May-23	436,250	(18,171)		(224,588)			432,033	442,389	424,610	407,581	418,080
2023	Jun-23	456,904	(57,888)		(715,501)			451,365	414,057	404,592	385,671	399,015
2023	Jul-23	421,835	10,159		125,560			419,731	416,436	402,896	389,774	431,994
2023	Aug-23	445,266	12,185		150,609			441,562	437,395	427,821	411,847	457,451
2023	Sep-23	358,331	(2,146)		(26,528)			354,916	345,621	340,271	327,718	356,185
	Summer Total	2,432,210	(67,579)		(835,276)			2,408,783	2,356,068	2,295,382	2,199,283	2,364,632
	WY23 Total	4,125,543	(22,104)		(273,210)			4,104,846	4,069,293	3,999,386	3,802,646	4,103,438



24-month Study		Aug-21
Rate Setting		
Projected Total Generation MWh		
Calendar Year		
2021	Dec-21	266,215
2022	Jan-22	309,433
2022	Feb-22	273,966
2022	Mar-22	295,657
Winter total		1,650,069
2022	Apr-22	291,212
2022	May-22	389,173
2022	Jun-22	376,375
2022	Jul-22	389,899
2022	Aug-22	415,963
2022	Sep-22	324,725
Summer Total		2,187,348
WY22 Total		3,837,417
2022	Oct-22	272,687
2022	Nov-22	231,689
2022	Dec-22	273,561
2023	Jan-23	316,875
2023	Feb-23	281,920
2023	Mar-23	316,599
Winter total		1,693,332
2023	Apr-23	313,625
2023	May-23	436,250
2023	Jun-23	456,904
2023	Jul-23	421,835
2023	Aug-23	445,266
2023	Sep-23	358,331
Summer Total		2,432,210
WY23 Total		4,125,543

• August 24-Month Study

- WAPA-199 Rate based on Projected Generation for FY2022-FY2023
- Used for December 2021 DSA
- Used to determine lost revenue when sales are below August projections



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Projected Total Generation MWh		
Calendar Year		
2021	Dec-21	266,215
2022	Jan-22	309,433
2022	Feb-22	273,966
2022	Mar-22	295,657
Winter total		1,650,069
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2023	Aug-23	445,266
2023	Sep-23	358,331
Summer Total		2,432,210
WY23 Total		4,125,543

• 24-Month Studies

- Green Shade = Forecast higher than August 24-month
- Red Shade = Forecast lower than August 24-month
- Yellow Shade = DSA for the highlighted months
- Light yellow shade with red numbers = Actual data
- Currently, no months below Minimum Power Pool

Sep-21	Oct-21	Nov-21	Dec-21	Jan-22
Projected Generation	Projected Generation	Projected Generation	Projected Generation	Projected Generation
266,935	265,293	267,920	267,920	258,749
310,233	307,720	270,227	291,399	286,573
274,289	272,641	221,690	237,366	236,915
295,393	292,804	242,934	258,388	259,861
1,647,507	1,631,787	1,545,498	1,540,754	1,521,004
290,914	287,500	264,393	260,722	254,791
388,947	393,240	388,833	365,006	480,964
373,472	371,110	438,673	352,722	398,021
388,488	385,393	434,582	421,013	444,870
411,916	408,104	460,693	438,814	471,116
325,866	319,447	356,851	340,850	376,726
2,179,604	2,164,794	2,344,025	2,179,127	2,426,487
3,827,111	3,796,582	3,889,524	3,719,881	3,947,492
272,263	268,013	274,824	262,046	282,365
231,325	229,770	234,585	221,801	239,090
276,100	279,002	281,735	268,992	286,310
319,724	334,757	325,162	303,387	331,027
284,254	296,659	289,302	269,925	294,605
312,396	305,023	298,396	277,212	305,409
1,696,063	1,713,225	1,704,004	1,603,362	1,738,807
309,175	300,171	295,191	276,692	301,907
432,033	442,389	424,610	407,581	418,080
451,365	414,057	404,592	385,671	399,015
419,731	416,436	402,896	389,774	431,994
441,562	437,395	427,821	411,847	457,451
354,916	345,621	340,271	327,718	356,185
2,408,783	2,356,068	2,295,382	2,199,283	2,364,632
4,104,846	4,069,293	3,999,386	3,802,646	4,103,438



24-month Study		Aug-21
		Rate Setting
		Projected Total Generation MWh
Calendar Year		
2021	Dec-21	266,215
2022	Jan-22	309,433
2022	Feb-22	273,966
2022	Mar-22	295,657
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2023	Jun-23	456,904
2023	Jul-23	421,835
2023	Aug-23	445,266
2023	Sep-23	358,331
Summer Total		2,432,210
WY23 Total		4,125,543

• 24-Month Studies used to set DSA levels:

- Nov 2021: Jan - Mar 2022
- Feb 2022: Apr – Jun 2022
- May 2022: Jul – Sep 2022
- Aug 2022: Oct – Dec 2022
- Nov 2022: Jan – Mar 2023
- Feb 2023: Apr – Jun 2023
- May 2023: Jul – Sep 2023
- Aug 2023: Oct – Dec 2023

Sep-21	Oct-21	Nov-21	Dec-21	Jan-22
Projected Generation	Projected Generation	Projected Generation	Projected Generation	Projected Generation
266,935	265,293	267,920	267,920	258,749
310,233	307,720	270,227	291,399	286,573
274,289	272,641	221,690	237,366	236,915
295,393	292,804	242,934	258,388	259,861
1,647,507	1,631,787	1,545,498	1,540,754	1,521,004
290,914	287,500	264,393	260,722	254,791
388,947	393,240	388,833	365,006	480,964
373,472	371,110	438,673	352,722	398,021
388,488	385,393	434,582	421,013	444,870
411,916	408,104	460,693	438,814	471,116
325,866	319,447	356,851	340,850	376,726
2,179,604	2,164,794	2,344,025	2,179,127	2,426,487
3,827,111	3,796,582	3,889,524	3,719,881	3,947,492
272,263	268,013	274,824	262,046	282,365
231,325	229,770	234,585	221,801	239,090
276,100	279,002	281,735	268,992	286,310
319,724	334,757	325,162	303,387	331,027
284,254	296,659	289,302	269,925	294,605
312,396	305,023	298,396	277,212	305,409
1,696,063	1,713,225	1,704,004	1,603,362	1,738,807
309,175	300,171	295,191	276,692	301,907
432,033	442,389	424,610	407,581	418,080
451,365	414,057	404,592	385,671	399,015
419,731	416,436	402,896	389,774	431,994
441,562	437,395	427,821	411,847	457,451
354,916	345,621	340,271	327,718	356,185
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4,104,846	4,069,293	3,999,386	3,802,646	4,103,438



24-month Study		Aug-21		
		Rate Setting		
Calendar Year		Projected Total Generation MWh	Difference in Rate to DSA MWh sent to Customers	DSA Actual Generation MWh
2021	Dec-21	266,215	(7,466)	258,749
2022	Jan-22	309,433	(39,206)	
2022	Feb-22	273,966	(52,276)	
2022	Mar-22	295,657	(52,723)	
Winter total		1,650,069	(151,671)	
2022	Apr-22	291,212	(36,420)	
2022	May-22	389,173	91,791	
2022	Jun-22	376,375	21,646	
2022	Jul-22	389,899	54,971	
2022	Aug-22	415,963	55,152	
2022	Sep-22	324,725	52,000	
Summer Total		2,187,348	239,139	
WY22 Total		3,837,417	102,400	
2022	Oct-22	272,687	9,678	
2022	Nov-22	231,689	7,401	
2022	Dec-22	273,561	12,748	
2023	Jan-23	316,875	14,153	
2023	Feb-23	281,920	12,685	
2023	Mar-23	316,599	(11,190)	
Winter total		1,693,332	45,475	
2023	Apr-23	313,625	(11,717)	
2023	May-23	436,250	(18,171)	
2023	Jun-23	456,904	(57,888)	
2023	Jul-23	421,835	10,159	
2023	Aug-23	445,266	12,185	
2023	Sep-23	358,331	(2,146)	
Summer Total		2,432,210	(67,579)	
WY23 Total		4,125,543	(22,104)	

- Difference in Rate to DSA sent to Customers:
 - August 24-month Projection minus DSA
 - MWh
 - Light yellow shade with red numbers = Actual data
 - Yellow Shade = DSA for the highlighted months
 - No Shade = Forecast from latest 24-month



24-month Study		Aug-21		
		Rate Setting		12.36
Calendar Year		Projected Total Generation MWh	Difference in Rate to DSA MWh sent to Customers	Lost Revenue @ WAPA-199 Rate (\$)
2021	Dec-21	266,215	(7,466)	(92,275)
2022	Jan-22	309,433	(39,206)	(484,587)
2022	Feb-22	273,966	(52,276)	(646,131)
2022	Mar-22	295,657	(52,723)	(651,660)
	Winter total	1,650,069	(151,671)	(1,874,654)
2022	Apr-22	291,212	(36,420)	(450,155)
2022	May-22	389,173	91,791	1,134,534
2022	Jun-22	376,375	21,646	267,540
2022	Jul-22	389,899	54,971	679,440
2022	Aug-22	415,963	55,152	681,684
2022	Sep-22	324,725	52,000	642,721
	Summer Total	2,187,348	239,139	2,955,764
	WY22 Total	3,837,417	102,400	1,081,110
2022	Oct-22	272,687	9,678	119,617
2022	Nov-22	231,689	7,401	91,475
2022	Dec-22	273,561	12,748	157,568
2023	Jan-23	316,875	14,153	174,926
2023	Feb-23	281,920	12,685	156,785
2023	Mar-23	316,599	(11,190)	(138,306)
	Winter total	1,693,332	45,475	562,066
2023	Apr-23	313,625	(11,717)	(144,827)
2023	May-23	436,250	(18,171)	(224,588)
2023	Jun-23	456,904	(57,888)	(715,501)
2023	Jul-23	421,835	10,159	125,560
2023	Aug-23	445,266	12,185	150,609
2023	Sep-23	358,331	(2,146)	(26,528)
	Summer Total	2,432,210	(67,579)	(835,276)
	WY23 Total	4,125,543	(22,104)	(273,210)

- Lost Revenue /Additional Sales
 - Difference between Aug 24-month and DSA multiplied by WAPA-199 Energy rate (12.36 mills/kWh)



24-month Study		Aug-21				Purchased to meet DSA	
Calendar Year		Rate Setting	Difference in Rate to DSA MWh sent to Customers	DSA Actual MWh	12.36	Total Net Includes Losses MWh	Total Net Includes Losses \$
		Projected Total Generation MWh			Lost Revenue @ WAPA-199 Rate (\$)		
2021	Dec-21	266,215	(7,466)	258,749	(92,275)	22,123 \$	463,551.41
2022	Jan-22	309,433	(39,206)		(484,587)	6,579 \$	369,749.43
2022	Feb-22	273,966	(52,276)		(646,131)	3,728 \$	195,469.73
2022	Mar-22	295,657	(52,723)		(651,660)	3,862 \$	309,789.34
	Winter total	1,650,069	(151,671)		(1,874,654)	36,293	1,338,560
2022	Apr-22	291,212	(36,420)		(450,155)		
2022	May-22	389,173	91,791		1,134,534		
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	Summer Total	2,432,210	(67,579)		(835,276)		
	WY23 Total	4,125,543	(22,104)		(273,210)		

- Purchased Power to meet DSA
 - Net includes losses and surplus sales
 - Forecast compares the current 24-Month Study to the DSA for the quarter to project Purchased Power for the known DSA amount
 - Not tied to the “Difference in Rate to DSA MWh sent to Customers” column
- Cost Recovery Charge
 - Unlikely to occur under WAPA-199



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		Rate Setting		12.36	Purchased to meet DSA							
Calendar Year		Projected Total	Difference in	Lost Revenue	Total Net	Total Net	Projected	Projected	Projected	Projected		
		Generation	Rate to DSA sent to Customers	@ WAPA-199 Rate (\$)	Includes Losses MWh	Includes Losses \$	Generation	Generation	Generation	Generation		
			DSA Actual									
2021	Dec-21	266,215	(7,466)	258,749	(92,275)	22,123 \$	463,551.41	266,935	265,293	267,920	267,920	258,749
2022	Jan-22	309,433	(39,206)		(484,587)	6,579 \$	369,749.43	310,233	307,720	270,227	291,399	286,573
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	Winter total	1,650,069	(151,671)		(1,874,654)	36,293	1,338,560	1,647,507	1,631,787	1,545,498	1,540,754	1,521,004
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	Summer Total	2,187,348	239,139		2,955,764			2,179,604	2,164,794	2,344,025	2,179,127	2,426,487
	WY22 Total	3,837,417	102,400		1,081,110			3,827,111	3,796,582	3,889,524	3,719,881	3,947,492
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2023	Aug-23	445,266	12,185		150,609			441,562	437,395	427,821	411,847	457,451
2023	Sep-23	358,331	(2,146)		(26,528)			354,916	345,621	340,271	327,718	356,185
	Summer Total	2,432,210	(67,579)		(835,276)			2,408,783	2,356,068	2,295,382	2,199,283	2,364,632
	WY23 Total	4,125,543	(22,104)		(273,210)			4,104,846	4,069,293	3,999,386	3,802,646	4,103,438



Questions?



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