



Western
Area Power
Administration

Hoover FY Annual Energy Reconciliation Report Navigation

February 28, 2019

Desert Southwest Region



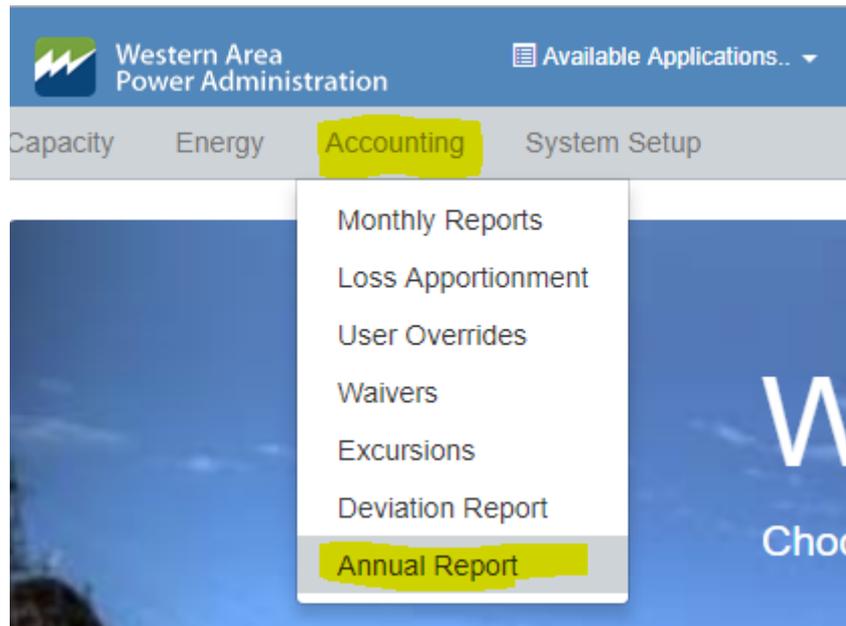
Purpose of the FY Energy Reconciliation Report

1. To compare the Actual Energy Available to each contractor against the Energy Deemed Delivered to each contractor for each month of the Fiscal Year
 - Actual Energy Available is:
 - Net Generation + Resource Integration + Energy Layoffs
 - Energy Deemed Delivered is:
 - Energy Scheduled + M(L) Assessments + S(L) Assessment + Less M(L) & S(L) Returned
2. To calculate the project deviation and deviation for each contractor

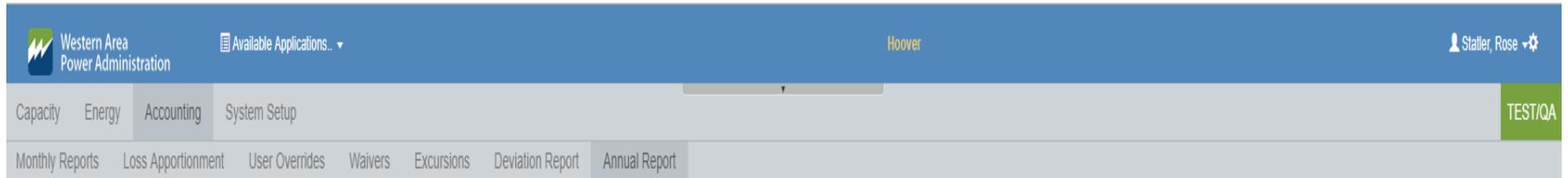


Navigating to the FY Annual Energy Reconciliation Report

- Login to the WAPA Portal
- <https://portal.wapa.gov/wapa-web-portal/login>
- From the Menu select
 - Accounting
 - Annual Report



Navigating to the FY Annual Energy Reconciliation Report



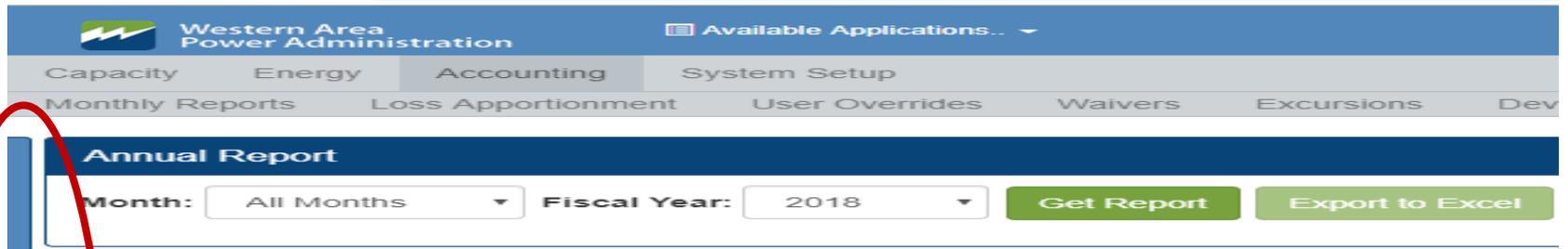
Can choose by month or all months

Select Fiscal Year
Note: only fiscal years that have been made available/finaled will be visible

Select desired view –
1 – Schedule Definition (Default)
2 – Contractor
3 – Summary



Navigating to the FY Annual Energy Reconciliation Report



Western Area Power Administration Available Applications..

Capacity Energy Accounting System Setup

Monthly Reports Loss Apportionment User Overrides Waivers Excursions Dev

Annual Report

Month: All Months Fiscal Year: 2018 Get Report Export to Excel

Collapsing Filter Options, allows the user to select specific contractors or schedule definitions



Navigating to the FY Annual Energy Reconciliation Report

The screenshot displays a 'Filters' panel with two main sections. The top section, 'Contractor', is circled in red and contains a list of entities with checkboxes. The bottom section, 'Schedule Definitions', is also circled in red and contains a list of schedule codes with checkboxes. A red arrow points from the 'Contractor' section to the text on the right, and another red arrow points from the 'Schedule Definitions' section to the text on the right.

Contractor

- Select/DeSelect All
- Agua Caliente Band Of Cahuilla Indians
- Anza Electric Cooperative, Inc.
- Arizona Power Authority
- Augustine Band of Cahuilla Indians
- Bishop Paiute Tribe
- Cabazon Band of Mission Indians
- California Department of Water Resources
- Chemehuevi Indian Tribe
- City of Anaheim
- City of Azusa
- City of Banning
- City of Boulder City
- City of Burbank

Schedule Definitions

- Select/DeSelect All
- CDWR - STAT SCHED
- CERR - STAT SCHED
- COLT - STAT SCHED
- CORO - STAT SCHED
- CORP - STAT SCHED
- CRSP APA PAGE - STAT SCHED
- DSWM AMPS - STAT SCHED
- DSWM APA APS - STAT SCHED
- DSWM APA TEP - STAT SCHED
- DSWM CAISO - STAT SCHED
- DSWM CRC NVE - STAT SCHED
- DSWM CRC WALC - STAT SCHED
- DSWM ED2 FRED - STAT SCHED

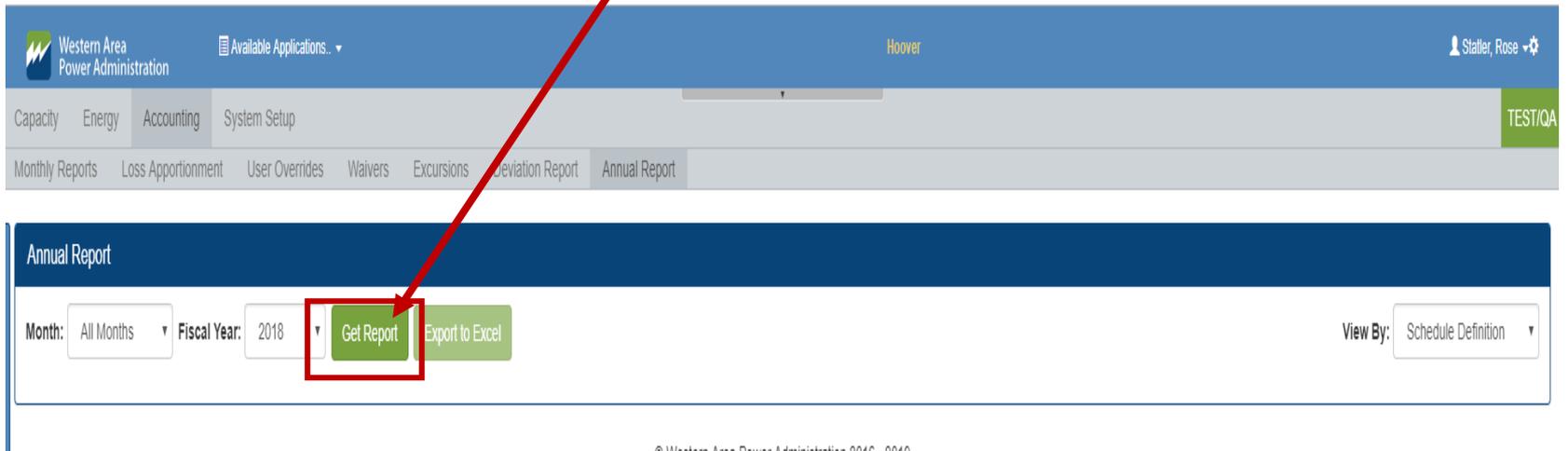
Contractor Section on top,
Schedule Definition Section on the
bottom

*Note: The specific views do not limit
your filter selection here*



Navigating to the FY Annual Energy Reconciliation Report

- Once the desired filter options have been selected, click on “Get Report”



The screenshot displays the Western Area Power Administration software interface. The top navigation bar includes the logo, "Available Applications..." dropdown, the user name "Hoover", and the user profile "Stalter, Rose" with a settings icon. Below this, a secondary navigation bar lists menu items: Capacity, Energy, Accounting, System Setup, Monthly Reports, Loss Apportionment, User Overrides, Waivers, Excursions, Deviation Report, and Annual Report. The "Annual Report" menu item is highlighted. The main content area is titled "Annual Report" and contains filter options: "Month: All Months", "Fiscal Year: 2018", a "Get Report" button (highlighted with a red box and a red arrow), and an "Export to Excel" button. A "View By: Schedule Definition" dropdown is also present. The footer of the interface shows the copyright notice "© Western Area Power Administration 2016 - 2018".



Data on the FY Annual Energy Reconciliation Report

- The report is divided into two sections
 1. “Hoover Grand Totals”
 2. “Totals By Schedule Definition/Contractor”
- Each section is collapsible/expandable
 - The initial view only displays
 - If “All Months” are selected the FY Totals will be displayed for the contractor(s) or schedule definition(s) selected
 - If a specific month is selected only totals for that month are displayed for the contractor(s) or schedule definition(s) selected
 - *Note: Only filtered selections will reflect in the “Hoover Grand Totals” section*



Data on the FY Annual Energy Reconciliation Report

Western Area Power Administration Available Applications... Hoover Statler, Rose

Capacity Energy Accounting System Setup TEST/Q

Monthly Reports Loss Apportionment User Overrides Waivers Excursions Deviation Report Annual Report

Annual Report Totals for Fiscal Year 2018 by Schedule Definition

Month: All Months Fiscal Year: 2018 Get Report Export to Excel Compile Report Data View By: Schedule Definition

Hoover Grand Totals												
Month	Hoover Total Entitlement	Layoff energy	Resource Integration Exchange	Total Available Energy	Energy Scheduled (MWh)	Total M(L) assessed	Total S(L) assessed	Total M(L) & S(L) Return	Energy Deemed Delivered (MWh)	Underrun Reduction	Underrun Redistribution	Monthly Deviation
FY Total	3,629,007.332	0.0	0.0	3,629,007.332	3,489,821.0	92,311.955	65,291.971	17,660.634	3,629,764.292	0.0	0.0	2,058.037

▼ Hoover Monthly Totals

Click on triangle to expand and view totals for all months
 Click again to collapse view

Data on the FY Annual Energy Reconciliation Report

Annual Report Totals for Fiscal Year 2018 by Schedule Definition

Month: Fiscal Year:

View By:

Hoover Grand Totals												
Month	Hoover Total Entitlement	Layoff energy	Resource Integration Exchange	Total Available Energy	Energy Scheduled (MWh)	Total M(L) assessed	Total S(L) assessed	Total M(L) & S(L) Return	Energy Deemed Delivered (MWh)	Underrun Reduction	Underrun Redistribution	Monthly Deviation
FY Total	3,629,007.332	0.0	0.0	3,629,007.332	3,489,821.0	92,311.955	65,291.971	17,660.634	3,629,764.292	0.0	0.0	2,058.037
▶ Hoover Monthly Totals												
Last FY Deviation												2,814.998
Oct-2017	236,064.76	-0.0	25.0	236,089.76	222,105.0	8,265.0	10,571.001	211.063	240,729.938	0.0	0.0	-4,640.178
Nov-2017	288,030.58	0.0	0.0	288,030.58	279,018.0	6,804.968	4,153.979	14.576	289,962.371	0.0	0.0	-1,931.791
Dec-2017	234,340.95	-0.0	3.0	234,343.95	215,862.0	6,299.0	2,082.001	3,370.355	220,872.646	0.0	0.0	13,471.304
Jan-2018	176,703.15	0.0	3.0	176,706.15	169,466.0	7,468.0	3,052.001	5.332	179,980.669	0.0	0.0	-3,274.519
Feb-2018	273,372.69	0.0	3.0	273,375.69	281,524.0	6,601.0	2,173.002	3,059.082	287,238.92	0.0	0.0	-13,863.23
Mar-2018	330,850.53	0.0	-252.0	330,598.53	321,274.0	5,914.999	1,628.0	2,995.97	325,821.029	0.0	0.0	4,777.502
Apr-2018	401,749.92	-0.0	0.0	401,749.92	391,816.0	6,638.003	777.001	1,574.586	397,656.418	0.0	0.0	4,093.502
May-2018	413,331.921	0.0	0.0	413,331.921	396,272.0	8,446.99	6,639.99	172.598	411,186.382	0.0	0.0	2,145.539
Jun-2018	382,798.03	0.0	-32.0	382,766.03	365,300.0	8,228.999	9,276.997	54.155	382,751.841	0.0	0.0	14.189
Jul-2018	317,281.14	0.0	0.0	317,281.14	301,698.0	9,669.997	8,540.0	113.656	319,794.341	0.0	0.0	-2,513.201
Aug-2018	291,212.46	0.0	0.0	291,212.46	274,884.0	8,990.999	8,074.0	1,598.425	290,350.574	0.0	0.0	861.886
Sep-2018	283,271.2	0.0	250.0	283,521.2	270,602.0	8,984.0	8,323.999	4,490.836	283,419.163	0.0	0.0	102.037



Data on the FY Annual Energy Reconciliation Report

Totals By Schedule Definition													
Month	Total Entitlement	Layoff energy	Resource Integration Exchange	Total Available Energy	Energy Scheduled (MWh)	Total M(L) assessed	Total S(L) assessed	Total M(L) & S(L) Return	Energy Deemed Delivered (MWh)	Underrun Reduction	Underrun Redistribution	Monthly Deviation	End Note
AEPC - DYN SCHED													
FY Total	309,292.589	283.614	0.0	309,576.204	308,250.0	8,481.538	6,182.081	16,155.0	306,758.619	0.0	0.0	2,817.585	
▼ Monthly Totals													
▼ Contractor Monthly Totals													
AEPC APA - STAT SCHED													
FY Total												-0.153	
▼ Monthly Totals													
▼ Contractor Monthly Totals													
AEPC CRC CAISO - STAT SCHED													

Clicking on the “Monthly Totals” triangle will expand the monthly totals for the entire schedule definition or contractor depending on the “View by” selection



Data on the FY Annual Energy Reconciliation Report

AEPC - DYN SCHED						
	1,081	16,155.0	306,758.619	0.0	0.0	2,817.585
▼ Monthly Totals						
▼ Contractor Monthly Totals						
Agua Caliente Band Of Cahuilla Indians						
FY Total	2,542.309	3.712	0.0			18.821
▼ Monthly Totals						
▼ Schedule Definition Montly totals						

Clicking on the triangle will expand the monthly totals per Schedule definition

▼ Monthly Totals

▼ Contractor Monthly Totals

Based on view selection label will be "Contractor Monthly Totals" or "Schedule Definition Monthly Totals"

Agua Caliente Band Of Cahuilla Indians

FY Total

2,542.309

3.712

0.0

0.0

18.821

Clicking on the triangle will expand the monthly totals per schedule definition

▼ Monthly Totals

▼ Schedule Definition Montly totals



Data on the FY Annual Energy Reconciliation Report

Annual Report Totals for Fiscal Year 2018 by Summary

Month: Fiscal Year:

View By:

Summary View

Month	Total Generation	Total S(L) assessed	Xfmr Losses	Net Generation	Resource Integration Exchange	Energy Scheduled	Total M(L) Assessed	Total M(L) & S(L) Return	Month Deviation	Total Accumulated Deviation
Oct-2017	227,853	10,571	2,384	225,469	25	222,105	8,265	0	-4,876	-2,061
Nov-2017	286,786	4,154	2,909	283,877	0	279,018	6,805	0	-1,946	-4,008
Dec-2017	234,623	2,082	2,367	232,256	3	215,862	6,299	3,366	13,464	9,456
Jan-2018	175,433	3,052	1,785	173,648	3	169,466	7,468	0	-3,283	6,173
Feb-2018	273,958	2,173	2,761	271,197	3	281,524	6,601	3,043	-13,882	-7,709
Mar-2018	332,819	1,628	3,344	329,475	-252	321,274	5,915	2,973	5,007	-2,702
Apr-2018	405,031	777	4,058	400,973	0	391,816	6,638	1,533	4,052	1,350
May-2018	410,867	6,640	4,175	406,692	0	396,272	8,447	40	2,013	3,363
Jun-2018	377,420	9,277	3,867	373,553	-32	365,300	8,229	40	32	3,395
Jul-2018	311,946	8,540	3,205	308,741	0	301,698	9,670	89	-2,538	857
Aug-2018	286,080	8,074	2,942	283,138	0	274,884	8,991	1,440	703	1,560
Sep-2018	277,556	8,324	2,859	274,697	250	270,602	8,984	4,356	-283	1,277
Total	3,600,372	65,292	36,657	3,563,715	0	3,489,821	92,312	16,880	-1,538	1,277

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Data on the FY Annual Energy Reconciliation Report

- View by Summary will return a summary of the Hoover Deviation for the entire project for each month
- Columns
 - Total Generation
 - Metered total of the generators
 - Total S(L) assessed
 - Xfrmr Losses
 - Loss rate is 1%
 - Net Generation is
 - Net Generation = Actual Gen – Transformer Losses



Data on the FY Annual Energy Reconciliation Report

- Columns (view by summary) cont...
 - Resource Integration Exchange is the amount of energy exchanged between contractors which allows contractors to fit their monthly energy allocation more closely with their monthly load curve
 - Energy Scheduled (MWh) is the amount of energy scheduled each month
 - Total M(L) Assessed
 - Total M(L) & S(L) Return
 - Month Deviation is
 - $(\text{Net Generation} + \text{Total S(L) assessed} + \text{Resource Integration Exchange}) - (\text{Energy Scheduled} - \text{Total M(L) Assessed} - \text{S(L) assessed} + \text{Total M(L) \& S(L) Return})$
 - Total Accumulated Deviation
 - Prior FY ending Deviation = 2815



Data on the FY Annual Energy Reconciliation Report

Hoover Grand Totals											
Month	Force ion nge	Total Available Energy	Energy Scheduled (MWh)	Total M(L) assessed	Total S(L) assessed	Total M(L) & S(L) Return	Energy Deemed Delivered (MWh)	Underrun Reduction	Underrun Redistribution	Monthly Deviation	
FY To		0.0	3,629,007.332	3,489,821.0	92,311.955	65,291.971	17,660.634	3,629,764.292	0.0	0.0	2,058.037

View By: Summary

ation	Total Accumulated Deviation
	-2,061
	-4,008
	9,456
	6,173
	-7,709
	-2,702
	1,350
	3,363
	3,395
	857
	1,560
	1,277
	1,277

- The Total Deviation difference between the views:
1. The deviation total in the Summary view is the deviation total for the entire Hoover project which includes the monthly M(L) and S(L) assessments for WALC – This is the deviation The BA has with the integrated federal projects
 2. The deviation total in the Schedule Definition or Contractor view is the deviation sum of all the contractors for the fiscal year



Data on the FY Annual Energy Reconciliation Report

- Data highlighted in blue color
 - Represents the Actual Energy Available to each contractor for each month
- Columns
 1. Hoover Total Entitlement is
 - a. The sum of contractor's Schedule A, B and C entitlement of Net Generation
 - b. $\text{Net Generation} = \text{Actual Gen} - \text{Transformer Losses} + \text{S(L) Assessments}$
 2. Lay off energy is the amount of energy each contractor received or laid off each month *Note: Layoff energy should always equal zero for all of Hoover*



Data on the FY Annual Energy Reconciliation Report

- Columns (blue highlighted area) cont...
 3. Resource Integration Exchange is the amount of energy exchanged between contractors which allows contractors to fit their monthly energy allocation more closely with their monthly load curve
 4. Total Available Energy is
 - a. Hoover Total Entitlement + Layoffs energy + Resource integration



Data on the FY Annual Energy Reconciliation Report

- Data highlighted in green color
 - Represents the Actual Energy Deemed Delivered to each contractor for each month
- Columns
 - Energy Scheduled (MWh) is the amount of energy scheduled each month
 - Total M(L) assessed is the monthly Motoring Loss assessment
 - Total S(L) assessed is the monthly Synchronized Generation Loss assessment
 - Total M(L) & S(L) Return is the amount of M(L) and S(L) assessments physically returned to the project each month



Data on the FY Annual Energy Reconciliation Report

- Columns (green highlighted area) cont...
 - Energy Deemed Delivered (MWh) is
 - a. $\text{Energy Scheduled} + \text{Total M(L) assessed} + \text{Total S(L) assessed} - \text{Total M(L) \& S(L) Returned}$
 - Underrun Reduction is the amount of energy reduced from each contractor for running under period or monthly target allocation
 - Underrun Redistribution is the amount of energy from the Underrun reductions redistributed to each contractor
 - Monthly Deviation is
 - a. $\text{Total Available Energy} - \text{Energy Deemed Delivered} - \text{Underrun Reduction} + \text{Underrun Redistribution}$



Export to Excel

- All reports are exportable to Excel by clicking on the “Export to Excel” button
 - Only the filtered information will export to Excel
 - *Note: Only filtered selections will reflect in the “Hoover Total” section*
 - Export to Excel will give the user more detailed information
 - The Hoover Entitlement will be broken out by Schedule A, B, C & D
 - The Layoff energy will be broken out by Schedule A, B, C & D
 - Only the headers of each section will be highlighted in color
 - Totals will appear at the end of each section



Export to Excel

Month	Contract Sched A Entitlement	Contract Sched B Entitlement	Contract Sched C Entitlement	Contract Sched D Entitlement	Sched A Layoff Energy	Sched B Layoff Energy	Sched C Layoff Energy	Sched D Layoff Energy	Total Layoff
Hoover Total									
Last FY Deviation									
Oct-17	186,254.69	38,006.73	0	11,803.34	0	0	0	0	0
Nov-17	227,255.63	46,373.30	0	14,401.65	0	0	0	0	0
Dec-17	184,894.61	37,729.20	0	11,717.15	0	0	0	0	0
Jan-18	139,418.48	28,449.44	0	8,835.23	0	0	0	0	0
Feb-18	215,690.58	44,013.36	0	13,668.75	0	0	0	0	0
Mar-18	261,040.50	53,267.36	0	16,542.67	0	0	0	0	0
Apr-18	316,980.00	64,682.26	0	20,087.67	0	0	0	0	0
May-18	326,118.18	66,546.97	0	20,666.77	0	0	0	0	0
Jun-18	302,026.99	61,630.98	0	19,140.07	0	0	0	0	0
Jul-18	250,334.27	51,082.67	0	15,864.19	0	0	0	0	0
Aug-18	229,766.13	46,885.58	0	14,560.75	0	0	0	0	0
Sep-18	223,500.49	45,607.03	0	14,163.68	0	0	0	0	0
Total	0	3,046.22	0	17,985.62	0	0	0	26.265	26.265

K	L	M	N	O	P	Q	R	S	T	U
Resource Integration Exchange	Total Available Energy	Energy Scheduled (MWh)	Total M(L) assessed	Total S(L) assessed	Total M(L) & S(L) Return	Energy Deemed Delivered (MWh)	Underrun Reduction	Underrun Redistribution	Monthly Deviation	End Note
										9
25	236,089.76	222,105.00	8,265.00	10,571.00	211.063	240,729.94	0	0	-4,640.18	
0	288,030.58	279,018.00	6,804.97	4,153.98	14.576	289,962.37	0	0	-1,931.79	
3	234,343.95	215,862.00	6,299.00	2,082.00	3,370.36	220,872.65	0	0	13,471.30	
3	176,706.15	169,466.00	7,468.00	3,052.00	5.332	179,980.67	0	0	-3,274.52	
3	273,375.69	281,524.00	6,601.00	2,173.00	3,059.08	287,238.92	0	0	-13,863.23	
-252	330,598.53	321,274.00	5,915.00	1,628.00	2,995.97	325,821.03	0	0	4,777.50	
0	401,749.92	391,816.00	6,638.00	777.001	1,574.59	397,656.42	0	0	4,093.50	
0	413,331.92	396,272.00	8,446.99	6,639.99	172.598	411,186.38	0	0	2,145.54	
-32	382,766.03	365,300.00	8,229.00	9,277.00	54.155	382,751.84	0	0	14.189	
0	317,281.14	301,698.00	9,670.00	8,540.00	113.656	319,794.34	0	0	-2,513.20	
0	291,212.46	274,884.00	8,991.00	8,074.00	1,598.43	290,350.57	0	0	861.886	
250	283,521.20	270,602.00	8,984.00	8,324.00	4,490.84	283,419.16	0	0	102.037	
0	21,058.11	20,897.00	0	0	0	20,897.00	0	0	170.106	



Questions?

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