

PowerMeter Adjusted Net Metered Interchange (ANMI) Graphing

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pim PowerMeter: New ANMI Graphing options added

- Two new Report options that create a spreadsheet with an automatic Line Graph of Adjusted Net Metered Interchange from the Allocation tab.
- ANMI Daily Graph option
 - Separate data columns and line graphs for each day in the range selected.
- ANMI Range Graph option
 - All hours in a single column for a single line graph for the date range selected.



ANMI Daily Graph option

 Creates a spreadsheet with an automatic Line Graph of Adjusted Net Metered Interchange from the Allocation tab. Separate data columns and line graphs for each day in the range selected.

Meter Accounts	Reports	
Download Report:	ANMI Daily Graph	~
Start Date:	03/03/2025	
End Date:	03/04/2025	

Hour End (EPT)	03/03/2025	03/04/2025	
1	34.8	31.1	Ties + Gen : EDC
2	33	29.7	
3	31.7	28.8	100
4	30.9	28.4	
5	31.1	28.1	90 -
6	32.1	28.8	
7	33.7	31.2	80 -
8	37.3	43.9	
9	41.4	57.3	70 +
10	45.2	54.8	
11	48.7	51.8	
12	52	49.5	
13	54.6	46.4	a Vie
14	57.1	41.5	- š 40 -
15	58.1	37.6	2
16	58.2	31.1	30
1/	68.3	29.7	20
18	88.2	28.8	
19	87.6	28.4	10 -
20	81	28.1	
21	01.5 57.0	28.8	0 + + + + + + + + + + + + + + + + +
22	0.10	21	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 2
23	48.2	25	Hour End (EPT)
24	41.9	24	



ANMI Range Graph option

 Creates a spreadsheet with an automatic Line Graph of Adjusted Net Metered Interchange from the Allocation tab. All hours in a single column for a single line graph for the date range selected.

Meter Accounts	Reports
Download Report:	ANMI Range Graph 🗸
Start Date:	03/03/2025
End Date:	03/04/2025



ANMI Graph, a useful tool to flag submission errors

- If every EDC, prior to the submission deadline, were to consistently monitor their Load Curve via a method like this, the number of submission errors should be reduced.
- For example a curve like this would be a Red Flag that at least two errors in either Generation and or Tie submissions are present that the given EDC would need to investigate allowing for correction prior to the submission deadline.





Convenient 'Graph ANMI' button on the Allocation Tab

• Added a 'Graph ANMI' button directly onto the Allocation Tab, so a user can directly open a popup view of the given day's ANMI graph for easy visual review.

Da	aily Submission	Daily Allocation	Monthly Correction	Load Submission	Meter Dashboard	Meter Accounts	Reports									
Sele	Ties + Gen : E	DC					×							Export:	SV XML	Graph ANMI
	3,000			EDC				ding E	EPT)							
	3,000	1							16	17	18	19	20	21	22	23
	2,800							013	-0.013	-0.013	-0.013	-0.013	-0.014	-0.014	-0.014	-0.014
	2,600							700	41.900	25.700	3.100	-0.300	-0.200	-0.200	-0.200	-0.200
	2,400	/						921	1.129	1.007	0.628	0.067				
	2,200							417	-0.412	-0.408	-0.407	-0.413	-0.414	-0.413	-0.411	-0.415
	2,000							017	-0.017	-0.017	-0.017	-0.018	-0.019	-0.018	-0.019	-0.019
	1,800							556	2.293	2.061	0.329	-0.010	-0.009	-0.010	-0.009	-0.009
	4.000							898	1.230	1.267	0.202	-0.004	-0.005	-0.004	-0.005	-0.004
	1,000							849	7.433	5.627	1.084	-0.002	-0.023	-0.023	-0.023	-0.023
	1,400				\backslash			698	334.787	266.676	146.370	119.365	120.232	121.316	120.153	120.246
	1,200			44 42 42 44	V	0 40 00 04	22 22 24	995	1,761.362	1,846.382	2,010.613	2,166.480	2,193.921	2,160.030	2,062.917	1,938.200
	1 2	3 4 5 6	7 8 9 10	11 12 13 14	15 16 17 1	8 19 20 21	22 23 24									۱.



Key Takeaways

1	2	3
 Three options for viewing / downloading Graphs of Adjusted Net Metered Interchange have been added into PowerMeter 	 EDCs that do not currently use such a Load Curve review method should plan to include this in their daily pre-deadline processing 	 Now released into Prod PowerMeter for fully metered EDC members to begin using



Appendix



PowerMeter: Submission Sign Convention Refresher

- Submitted by fully metered EDC Accounts:
 - Positive value for energy flowing into given EDC.
 - Because it 'adds' to that EDC's Load.
 - Negative value for energy flowing out of given EDC.
 - Because it 'subtracts' from that EDC's Load.
 - Counterparty EDC will always see the opposite value relative to their flow perspective.
- Generators

Ties

- Can be submitted by either EDC or Gen Owner:
- Regardless of who submits, the submission sign convention for Gens are the same.
 - Positive value for Generation Injected onto the Grid.
 - Because it 'adds' to the given EDC's Load.
 - Negative value for 'Consumption' drawn from the Grid.
 - Because it 'subtracts' from the given EDC's Load.
 - On the Allocation Tab, the given EDC will see the same value as on the Submission Tab.
 - While Gen Owner will see the opposite sign on the Allocation Tab relative to their % Ownership



Adjusted Net Meter Interchange:

- Is the Account's Net Position Relative to Energy Market.
 - Allocation Tab Aligns with LMP Billing Sign Convention

Positive Interchange, Withdrawal from PJM * Positive LMP = Charge owed to PJM.

Negative Interchange, Injection into PJM * Positive LMP = Negative Charge (aka a Credit).

- Adjusted Net Meter Interchange = Ties + Gen(+/-).
- For an EDC it can represent their Revenue Quality Load with Losses
 - Actual Net Meter Interchange = Net of their Boundary Tie flows.
 - Total Generation Adjustment = Gen(+/-) within the EDC that does not own unto themselves.
 - Adjusted Net Meter Interchange = Ties + Gen(+/-)
- While for Gen-Only Accounts, ANMI represents either:
 - Withdrawal(+), "Consumption" drawn from the Grid
 - Injection(-), Generation outputted onto the Grid.

PowerMeter: Allocation Tab, For Gen Only Account

Submission Tab, Injection is Positive and Withdraw is Negative.

Daily Submission Daily Alloc	ation /													
Select Date														
Meter Name 🚛	Counter Party 🖨	Meter Type 🚖	5min ♦	4	5	6	7	8	9	10	11	12	13	
					Withdraw					Injection	n			
Solar Unit	EDC	Generator	No	-0.022	-0.022	-0.021	0.008	0.591	4.036	7.721	10.821	29.963	35.520)

• Versus on the Allocation Tab the sign flips for ownership% displayed

Daily Submission Daily Allocation													
Select Date 03/04/2025													
Meter Name	Counter Party	Meter Type	4	5	6	7	8	9	10	11	12	13	
Actual Net Meter Interchange				Withdrawl					Injection				
Solar Unit	EDC	Generator	0.022	0.022	0.021	-0.008	-0.591	-4.036	-7.721	-10.821	- 29.9 63	-35.520	
Total Generation Adjustment			0.022	0.022	0.021	-0.008	-0.591	-4.036	-7.721	-10.821	- 29.9 63	-35.520	
Adjusted Net Meter Interchange			0.022	0.022	0.021	-0.008	-0.591	-4.036	-7.721	-10.821	-29.963	-35.520	

- ANMI is the Account's Net Position Relative to Energy Market.
- For Gen Only Accounts, represents either:
 - Withdrawal(+), "Consumption" drawn from the Grid (times positive LMP = Charge owed to PJM)
 - Injection(-), Generation outputted onto the Grid. (time positive LMP = Negative Charge (=Credit)



Daily Submission

03/04/2025

Select Date

PowerMeter: Allocation Tab, for EDC (Non-Gen Owner)

Adjusted Net Meter Interchange:

- Actual Net Meter Interchange = Net of their Boundary Tie flows.
- Total Generation Adjustment = Gen(+/-) within that the EDC does not own unto themselves.
- Adjusted Net Meter Interchange = Ties + Gen(+/-).
- Therefore for an EDC that does not own any Generation, their Adjusted Net Metered
 Interchange is their 'Revenue Quality Load with Losses'

	_												
Meter Name	Counter Party	Meter Type	4	5	6	7	8	9	10	11	12	13	
EDC Tie to Neighbor	Neighbor	Tie	10.372	10.529	15.130	21.206	31.241	35.703	33.896	31.449	15.508	-10.841	
Actual Net Meter Interchange			10.372	10.529	15.130	21.206	31.241	35.703	33.896	31.449	15.508	-10.841	
Solar Unit	Gen Owner	Generator	-0.022	-0.022	-0.021	0.008	0.591	4.036	7.721	10.821	29.963	35.520	
Total Generation Adjustment			-0.022	-0.022	-0.021	0.008	0.591	4.036	7.721	10.821	29.963	35.520	
Adjusted Net Meter Interchange			10.350	10.507	15.109	21.214	31.832	39.739	41.617	42.270	45.471	24.679	

– In turn matches what a Non-Gen Owning EDC will see on their Load Tab in PowerMeter:

Daily Submission	Daily Allocation	Monthly Correction	Load Submi	ssion								
		Total	4	5	6	7	8	9	10	11	12	13
ACTUAL NET METER IN	NTERCHANGE	508.710	10.372	10.529	15.130	21.206	31.241	35.703	33.896	31.449	15.508	-10.841
TOTAL INTERNAL GEN	ERATION	178.123	-0.022	-0.022	-0.021	0.008	0.591	4.036	7.721	10.821	29.963	35.520
LOAD WITH LOSSES		686.833	10.350	10.507	15.109	21.214	31.832	39.739	41.617	42.270	45.471	24.679

PowerMeter: Allocation Tab, for EDC that owns Gen inside itself

 While for an EDC that does own Generation, their Adjusted Net Metered Interchange is NOT their 'Revenue Quality Load with Losses'. Because the Gen Ownership "reduces" their Interchange.

Meter Name 🖕	Counter Party 🚖	Meter Type 🔶	5min ♦ All ♥	6	7	8	9	10	11	12	13	14	15
EDC Tie	Neighbor	Tie	No	28.800	31.200	34.000	26.500	6.500	-8.300	-10.600	-8.700	34.400	37.600
Gen EDC Owns	EDC	Generator	No	0.000	3.000	5.000	10.000	16.000	20.000	20.000	10.000	0.000	0.000
Gen Not Owned by EDC	Gen Owner	Generator	No	0.000	0.000	9.900	30.800	48.300	60.100	60.100	55.100	7.100	0.000

Daily Submission Daily Allocation												
Meter Name	Counter Party	Meter Type	6	7	8	9	10	11	12	13	14	15
EDC Tie	Neighbor	Tie	28.800	31.200	34.000	26.500	6.500	-8.300	-10.600	-8.700	34.400	37.600
Actual Net Meter Interchange			28.800	31.200	34.000	26.500	6.500	-8.300	-10.600	-8.700	34.400	37.600
Gen Not Owned by EDC	Gen Owner	Generator			9.900	30.800	48.300	60.100	60.100	55.100	7.100	
Total Generation Adjustment					9.900	30.800	48.300	60.100	60.100	55.100	7.100	
Adjusted Net Meter Interchange			28.800	31.200	43.900	57.300	54.800	51.800	49.500	46.400	41.500	37.600

Daily Submission Daily Allocation Monthly Co	rrection Load Submi	ssion									
	Total	6	7	8	9	10	11	12	13	14	15
ACTUAL NET METER INTERCHANGE	568.400	28.800	31.200	34.000	26.500	6.500	-8.300	-10.600	-8.700	34.400	37.600
TOTAL INTERNAL GENERATION	355.400	0.000	3.000	14.900	40.800	64.300	80.100	80.100	65.100	7.100	0.000
LOAD WITH LOSSES	923.800	28.800	34.200	48.900	67.300	70.800	71.800	69.500	56.400	41.500	37.600

Daily Submission



♪pjm

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PowerMeter ANMI Graphs

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