AEP Ohio CRES Provider Workshop

October 1, 2014



Agenda

- Welcome
- Opening Remarks
- Regulatory Update ESP III / Auction Status
- Net Metering
- Load Profiles
- Transmission/PJM
- Write-offs
- Welcome Customer Services & Marketing
- AEPCH Operations & Projects
- AEP Ohio gridSMART®
- Reinstatements
- Billing Validations & Budget
- Q & A
- Wrap-up

AEP Ohio Choice Operations

- Face of AEP Ohio to CRES Providers
- Address CRES Inquiries via <u>ohiochoiceoperation@aep.com</u>
- Interact with AEP Departments
- Strategic Initiatives & PUCO Working Groups

AEP Ohio Choice Operations Team

- Michele Chavalia Manager
- Anita Adams Market Specialist
- Amanda Butler Market Specialist
- Kristine Watts Market Specialist
- Kevin Vass Market Account Manager
- Open Provider Support Associate

Workshop Survey

- CRES Provider Input
- Complete after each Topic
- Additional Comments
- Leave Survey on Table

Questions?





Opening Remarks

Gary Spitznogle

October 1, 2014



Regulatory Update: Auction Status ESP II /ESP III as Proposed

Andrea Moore

October 1, 2014

Auction Schedule ESP II

<u>Auction Schedule (Energy Only Auction Results Reflected in APIR)</u>

- 25% Auction May Flow Beginning November
 1, 2014
- 25% Auction September Flow Beginning November 1, 2014
- 40% Auction November Flow Beginning January 1, 2015

Summary of Market Transition G Rates

• ESP II Transition Timeline

		ESP III			
	1/1/2014	4/1/2014	11/1/2014	1/1/2015	
	to	to	to	to	
	3/31/2014	10/31/2014	12/31/2014	5/31/2015	6/1/2015
<u>Auctions</u>					
Energy Auction %	0%	10%	60%	100%	100%
Ohio part of AEP's FRR Election	Yes	Yes	Yes	Yes	No
Capacity in Auction		No	No	No	Yes
Ancillary Services in Auction		No	No	No	Yes
Base Generation Rates					
Base Generation Rates	100%	90%	40%	0%	
Base Generation/Capacity at \$188.88 / MW-Day	0%	10%	60%	100%	

Overview of ESP III

- ESP Term June 1, 2015 through May 31, 2018
- Completes the Commission's objective of full transition to market
- Supports needed distribution infrastructure investment for continued and increased reliability
- Provides customers, auction participants, and CRES providers with advanced knowledge of the AEP Ohio Marketplace through May 2018
- Auctions- mix of two supply periods, 12 months and 24 months
 - Two auctions per year
 - Each synchronized to PJM planning year

	Delivery Periods							
Auction Date	June 2015	June 2016	June 2017					
	12 Month June 2015-May 2016 33%							
September 2014	24 Month June 2015- May	2017 17%						
	12 Month June 2015-May 2016 33%							
March 2015	24 Month June 2015- May2	017 17%						
September 2015		12 Month June 2016-May 2017 33%						
March 2016		12 Month June 2016-May 2017 33%						
September 2016			12 Month June 2017-May2018 50%					
March 2017			12 Month June 2017-May2018 50%					

Impact on Customer Rates

- On average over the three-year period, <u>SSO customers</u> are expected to see an approximate <u>decrease in rates of 9%</u>, <u>shopping customers</u> are expected to see rates <u>remain flat</u>.
- SSO rate will be determined based on a competitive bid auction
 - Will result in a bundled price for capacity, energy, and market-based transmission

SSO Customers

330 customers				
ESP II		ESP III		
Current Rates & Know				
		June	June	June
	Nov 2012 -	2015 -	2016 -	2017 -
	Oct 2013	May 2016	May 2017	May 2018
	\$/MWh	\$/MWh	\$/MWh	\$/MWh
Base G / Generation Capacity	25.28	12.12	5.39	8.74
FAC / Generation Energy	38.42	41.4	43.68	42.54
Total Generation	63.70	53.52	49.07	51.28
Riders	47.57	48.74	49.59	50.33
Total \$ /MWh	111.27	102.26	98.66	101.61
% Change over Current		-8%	-11%	-9%

Shopping Customers

ESP II			ESP III	
Estin	nated Rates			
		June	June	June
	Jan 2015 -	2015 -	2016 -	2017 -
	May 2015	May 2016	May 2017	May 2018
	\$/MWh	\$/MWh	\$/MWh	\$/MWh
Market G Capacity	11.41	12.12	5.39	8.74
Market G Energy	42.54	42.54	42.54	42.54
Total Generation	53.95	54.66	47.93	51.28
Riders	47.57	48.69	49.54	50.28
Total \$ /MWh	101.52	103.35	97.47	101.56
% Change over Current		2%	-4%	0%

Typical Bills- SSO Customer

Columbus Southern Power Rate Zone							
	Summer Monthly Bills Winter Monthly Bills						
Household	Current	Proposed	Change	Current	Proposed	Change	<u>Tariff</u>
1,000 kWh usage	\$156	\$144	-8%	\$143	\$133	-7%	R-R Bill
2,000 kWh usage	\$306	\$281	-8%	\$230	\$232	1%	R-R Bill
3,000 kWh usage	\$455	\$418	-8%	\$316	\$330	4%	R-R Bill
4,000 kWh usage	\$604	\$555	-8%	\$402	\$428	6%	R-R Bill
Small Business							
1,000 kW demand and 100,000 kWh usage	\$17,749	\$14,238	-20%	\$17,749	\$13,916	-22%	GS-2 Primary
1,000 kW demand and 300,000 kWh usage	\$37,245	\$29,876	-20%	\$37,245	\$28,910	-22%	GS-3 Primary
Industrial Business							
20,000 kW demand and 6 million kWh usage	\$507,465	\$423,228	-17%	\$507,465	\$404,268	-20%	GS-4
20,000 kW demand and 12 million kWh usage	\$832,612	\$775,112	-7%	\$832,612	\$737,192	-11%	GS-4

Ohio Power Rate Zone

	Sum	Summer Monthly Bills		Winter Monthly Bills			
Household	Current	Proposed	Change	Current	Proposed	Change	
1,000 kWh usage	\$141	\$137	-3%	\$141	\$133	-5%	RS Bill
2,000 kWh usage	\$265	\$261	-2%	\$265	\$254	-4%	RS Bill
3,000 kWh usage	\$389	\$384	-1%	\$389	\$374	-4%	RS Bill
4,000 kWh usage	\$513	\$507	-1%	\$513	\$494	-4%	RS Bill
Small Business							
1,000 kW demand and 100,000 kWh usage	\$16,896	\$15,521	-8%	\$16,896	\$15,199	-10%	GS-2 Primary
1,000 kW demand and 300,000 kWh usage	\$35,403	\$30,715	-13%	\$35,403	\$29,749	-16%	GS-2 Primary
ndustrial Business							
20,000 kW demand and 6 million kWh usage	\$584,463	\$443,698	-24%	\$584,463	\$424,738	-27%	GS-4 Transmissi
20,000 kW demand and 12 million kWh usage	\$897,602	\$816,035	-9%	\$897,602	\$778,115	-13%	GS-4 Transmissi

Recovery Mechanisms

Proposed New Riders:

- <u>gridSMART® Phase II Rider-</u> Application for Phase II was filed on September 13, 2013 (Docket No. 13-1939-EL-RDR). Includes Advanced Metering Infrastructure, Distribution Automation Circuit Reconfiguration, and Volt/VAR Optimization. Seeking approval for Phase II to become effective January 1, 2014. ESP III will continue this rider.
- <u>Auction Cost Reconciliation Rider</u> Allows the Company to recover any over/under collection based on what was billed to SSO customers versus what was paid to auction winners as well as all costs associated with Competitive Bid Process.
- <u>NERC Compliance and Cybersecurity Rider</u> Serves as a placeholder for potential future increases in the cost of compliance.
- <u>Sustained and Skilled Workforce Rider</u> Recovers the O&M portion of incremental labor costs *of new jobs created* to address the projected shortfall of distribution labor resources.
- <u>Basic Transmission Cost Rider</u> -Will recover certain transmission costs to better align with transmission recovery mechanisms of other EDUs in the State.
- Generation Energy and Generation Capacity Riders Replace base generation and FAC rates.
- <u>Power Purchase Agreement Rider-</u> Provides a hedge against market volatility. Initially includes the net benefit or cost accruing to AEP Ohio from its OVEC entitlement.
- <u>Bad Debt Rider-</u> Proposed due to implementation of a Purchase of Receivables program. Will include incremental bad debt expense since the date certain of the distribution rate case. Late payment charge, specific to residential customers, to be implemented and is revenue neutral. Will be offset by a reduction in Bad Debt Rider.

Recovery Mechanisms/Schedules

- Proposed Changes to Existing Riders/Mechanisms:
 - <u>Distribution Investment Rider (DIR)</u> Change to include General Plant accounts in rider and roll <u>gridSMART® Phase I Rider</u> into DIR.
 - Storm Damage Cost Recovery Rider (SDRR)- Based on the Storm Recovery Mechanism approved in ESP II. An annual true up will establish a rider to collect or refund the regulatory asset or liability from the previous year for any major storm cost exceeding or below the \$5 million baseline.
- Elimination of Existing Riders/Schedules:
 - <u>Transmission Cost Recovery Rider (TCRR)-</u> Subject to final true up. Generation related transmission costs will be included in the auction beginning June 1, 2015, and non-generation related transmission would be recovered in the newly proposed BTCR.
 - <u>Fuel Adjustment Clause (FAC)-</u> Replaced by Auction Cost Reconciliation Rider. Subject to final true-up.
 - Following Schedules are not Relevant to Wires Only Company:
 - Schedule Interruptible Power- Discretionary (IRP-D)- Discount is for generation services
 - <u>Schedule Supplement 18-</u> Introduced to give certain church and school service discounts on their demand charges in order to recognize that their typical usage is during off- peak hours.
 - **Schedule Stand-By-Service-** The distribution rates are the same for this schedule as the regular general service schedule.
 - <u>Time of Use Schedules-</u> Generation related.

Recovery Mechanisms

- Continuation of current riders/schedules:
 - Key riders include:
 - Economic Development Rider (EDR)
 - Enhanced Service Reliability Rider (ESRR)
 - Alternative Energy Rider (AER)
 - Energy Efficiency/Peak Demand Reduction Rider (EE/PDR)
 - Pilot Throughput Balancing Adjustment Rider (decoupling)
 - Retail Stability Rider (RSR)- A separate application will be filed to continue this rider
 - Deferred Asset Phase-In (Distribution Deferred Assets securitization)

Purchase of Receivables Program (POR)

- Agreement between the CRES provider and the Company to purchase allowable receivables billed on behalf of the CRES
- Though not required by an ESP, the Company is offering voluntarily as part of the overall ESP package
- There will be a zero discount rate to the POR if the Bad Debt Rider is approved
- Benefits of offering a POR:
 - POR programs attract more CRES providers
 - Customers can be placed on the Company's Budget and Average Monthly Payment programs
 - Customer deals with one entity for billing
 - Promotes positive shopping experience for customers

Summary of Riders

			Rider
Riders - No Change	Sheet No.	Abbreviation	Туре
Economic Development	482-1	EDR	Nonbypassable
Enhanced Service Reliability	483-1	ESRR	Nonbypassable
Deferred Asset Phase-In Rider	465-1	DAPIR	Nonbypassable
Alternative Energy Rider	492-1	AER	Bypassable
Energy Efficiency/Peak Demand Reduction	481-1	EE/PDR	Nonbypassable
Retail Stability Rider	487-1	RSR	Nonbypassable
Universal Service Fund Rider	460-1	USF	Nonbypassable
kWh Tax Rider	462-1	kWh Tax	Nonbypassable
Residential Distribution Credit Rider	463-1	RDCR	Nonbypassable
Pilot Throughput Balancing Adjustment Rider	464-1	PTBAR	Nonbypassable
Phase-In Recovery Rider	494-1	PIRR	Nonbypassable
Transmission Under Recovery Rider	476-1	TURR	Nonbypassable

			Rider
Riders - Changes Requested	Sheet No.	Abbreviation	Туре
Distribution Investment Rider	489-1	DIR	Nonbypassable
Storm Damage Cost Recovery Mechanism/Rider	490-1	SDRR	Nonbypassable

			Rider
Riders - Eliminated	Sheet No.	Abbreviation	Туре
gridSMART Rider (Phase I)		gridSMART®	Nonbypassable
Transmission Cost Recovery		TCRR	Bypassable
Fuel Adjustment Clause		FAC	Bypassable
Generation Resource Rider		GRR	NA
Pool Termination Rider		PTR	NA
Base Generation Rates (All Schedules)			Bypassable

			Rider
New Proposed Riders	Sheet No.	Abbreviation	Туре
gridSMART Rider (Phase II)	485-1	gridSMART®	Nonbypassable
Sustained and Skilled Workforce	466-1	SSWR	Nonbypassable
NERC Compliance and Cybersecurity Rider	472-1	NCCR	Nonbypassable
Bad Debt Rider	461-1	BDR	Nonbypassable

			Rider	
Riders Replacing Existing Mechanisms	Sheet No.	Abbreviation	Туре	Replaces
Auction Cost Reconciliation Rider	469-1	ACRR	Bypassable	
Power Purchase Agreement Rider	473-1	PPA	Nonbypassable	Base Generation and Fuel
Generation Energy	467-1	GENE	Bypassable	Adjustment Clause
Generation Capacity	468-1	GENC	Bypassable	
Basic Transmission Cost Rider	474-1	BTCR	Nonbypassable	TCRR

Questions?





Net Metering

Mark Gundelfinger

October 1, 2014

Net Metering



Net Metering Contacts

- Mark Gundelfinger
 - Manager Alternative Energy Resources
 - 614-883-7891
- Mike Grieshop
 - Distributed Generation (DG) Coordinator
 - 614-883-6819

Questions?





BREAK!



Load Profiles

Karen Lee Load Research Analyst

October 1, 2014

Why Load Profiling?

- For most SDIs, all that is known is their monthly energy
- For settlement purposes, hourly usage values are needed
- Historically, interval metering for every SDI was cost prohibitive
- Load Profiling allows all SDIs to easily participate

How we Load Profile

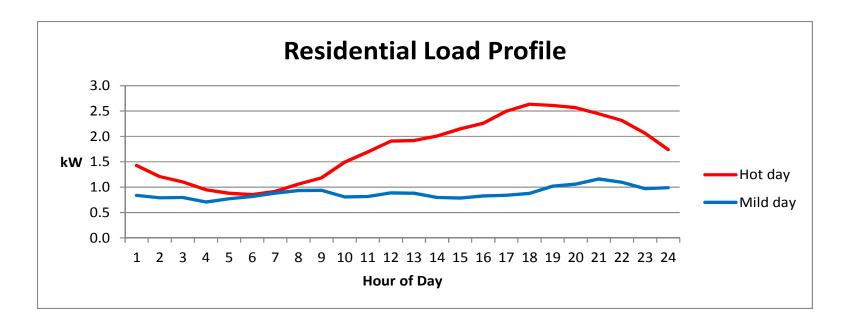
- AEP Ohio has on-going rate class samples, which meet PURPA 90/10 statistical accuracy standards, and which are used for cost-of-service studies
- Load Profiles are based on existing rate classes
 - Residential Service
 - GS1 General Service Small
 - GS2 General Service Medium
 - GS3 General Service Large

How we Load Profile (cont'd)

- Utilize actual sample data in calculating load profiles before final settlement
 - Retrieve sample customer data on normal cycle with hand-held devices or remotely via phone lines
 - MV90 VEE process daily
 - Approximately 10 days to complete the VEE process, produce load profiles and validate profiles
 - Actual weather effects and actual customer behavior is captured

How we Load Profile (cont'd)

 For lower usage SDIs (<200kW), the calculated load profiles are used to distribute an SDI's cumulative kWh to discrete hours



Future

- Currently there are separate load profiles for the two rate zones in AEP Ohio
- 2015 Consolidate rate zone samples
- AMI implementation will reduce number of SDIs that are profiled

Questions?





PJM Settlement - Settlement Quantity Computation

Alan Graves Manager Load Research

October 1, 2014

Computed Settlement Quantities

PJM requires that the Electric Distribution Company compute and provide various settlement quantities through procedures established with state regulators

Network Integration Transmission Service (PJM Manual 27 Section 5.2) Each Network Customer pays a monthly demand charge that is based on its daily Network Service Peak Load contribution (including losses).

Capacity (PJM Manual 18 Section 7.4)

Each PJM Electric Distribution Company (EDC) is responsible for allocating its normalized previous summer's peak to each customer in the zone

Hourly Energy

Settle the market between market sellers and market buyers Initial Settlement True-up Settlement

Settlement Quantities - Required Inputs

Parameters needed for each SDI

- Interval metered usage
- Monthly metered usage used for billing
- Load Profile ID
- Load profile values
- Service voltage class
- Liability what entity is responsible for SDI
- Active / inactive status

Parameters needed - not SDI related

- AEP Zonal annual peak date/time & PJM 5 CP date/times
- Loss factors
- AEP-Ohio system load

Computation Process

- NITS and Capacity Tickets (all AEP-OH SDIs)
 - Select actual hourly metered usage for specified dates/times
 - Estimate hourly usage through load profiling process
 - Use actual usage in billing period spanning dates/times
 - Estimate = actual usage in billing period / load profile usage in period X load profile value for specified date/time
 - Assign a class average if no applicable usage exists
 - Apply appropriate loss factor
 - Apply interruption add-back for capacity tickets, as needed
 - Compare sum of all tickets to system load
- NITS and Capacity daily obligations
 - Assign SDI to a CRES
 - Sum ticket values for all SDIs assigned to CRES
 - Deliver to Transmission Settlements / RTO Settlements

Computation Process - Initial Settlement

- Energy obligation computed daily (all SDIs)
 - PJM timeline doesn't allow for use of actual data
 - Select a similar day-type similar weather historical proxy day
 - Use interval usage from proxy day as usage estimate
 - Estimate hourly usage through load profiling process
 - Use latest billing period usage
 - Use profile from proxy day
 - Estimate = usage in latest billing period / load profile usage in period X load profile value
 - Use unscaled profile if no applicable usage exists
 - Apply appropriate loss factor
 - Assign SDI to CRES
 - Sum values for each hour for all SDIs assigned to CRES
 - Deliver to Transmission Settlements

Computation Process - True-up Settlement

- Energy obligation computed monthly middle of 2nd month following (all SDIs)
 - Uses actual hourly usage data for IDR SDIs
 - Estimate hourly usage through load profiling process
 - Use actual billing period usage(s) spanning month
 - Use actual profile
 - Estimate = usage in billing period / load profile usage in period X load profile value
 - Apply appropriate loss factor
 - Assign SDI to CRES
 - Sum values for each hour for all SDIs assigned to CRES
 - Compare sum of all Ohio SDIs to Ohio System Load
 - Calibrate results hourly to Ohio System Load (UFE application)
 - Deliver to Transmission Settlements

Questions?





PJM Settlement - NSPL and Energy Submission

Christopher Werner Supervisor Transmission Settlements

October 1, 2014

AEP Transmission Settlements

Key Responsibilities:

- We perform the yearly NSPL Analysis and adjust it daily
- We create all AEP Zone InSchedule contracts, submit energy values to PJM daily, and reconcile the data monthly

Key Contacts:

- Christopher Werner, Transmission Settlements Supervisor cmwerner@aep.com
 Oversees the day to day Transmission Settlements operations, including the PJM Submission
- Martha Sanger, Senior Energy Accounting Analyst masanger@aep.com
 Sets up InSchedule contracts, oversees data transfers, troubleshoots issues
- Tony Smith, Transmission Settlements Analyst I <u>afsmith@aep.com</u> Submits daily NSPL and energy values to PJM
- Tommy Abbott, Transmission Settlements Analyst I <u>tdabbott@aep.com</u> Tony's backup

Network Service Peak Load

- The Network Service Peak Load (NSPL) is the Zonal Peak Hour of from the previous year and is used to bill Network Service
- PJM provides the Peak hour to us (last year's peak hour was 7/18/13 HE 15), and we allocate the load to each Load Serving Entity (LSE) in our zone
- We perform this analysis in December, it is due to PJM by the end of the year
- Due to customer switching, PJM allows us to reallocate NSPL contributions on a daily basis
 - The changes are submitted to PJM's eRPM system
 - The due date is 36 hours before the operating day
 - The data submitted represents each companies load on the Peak Hour of the previous year that their customers would have consumed
 - Data is submitted by PJM Shortname

Energy

- Energy is submitted to PJM's InSchedule system. In the AEP Zone,
 Transmission Settlements submits all the data.
- In order to submit data to PJM, an InSchedule contract is required
 - Transmission Settlements creates the contract, and the counterparty must confirm it
 - Required information includes Contract Name, Start Date, Stop Date, Type of Pricing (always Real Time), Seller (PJM shortname), Confirmation (always Buyer Unilateral), Source (AEP_Zone), Buyer (always AEPSCT), Service (always Retail Load Responsibility), Sink (Always AEP_ZONE)

Daily Submission

- All data is due on the following business day by 2 p.m. (or by 5 p.m. if the following business day is after a weekend or a holiday)
- Transmission Settlements does not checkout our or manipulate the data except for increasing the load by 3.4126% for losses as prescribed in the PJM and AEP OATT
- We always submit best available data

Monthly Reconciliation

• Reconciliation for an entire month is due by the end of the second month after the operating month (so August reconciliation is due by October 1st)

Upcoming Changes

There are currently some proposed deadline changes being discussed in the PJM working groups:

- Changing the NSPL deadline from 36 hours before the operating day to
 12 hours after the operating day
- Changing the InSchedule deadline from the following business day to the 2nd business day after the operating day

Questions?





CRES Capacity Settlements

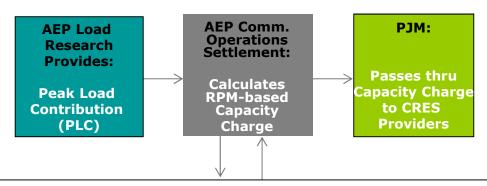
Joe Kluczynski Manager Energy Settlements

October 1, 2014

Capacity Charge History

- On July 2, 2012 PUCO Order No. 10-2929-EL-UNC established a capacity cost-based State Compensation Mechanism for AEP of \$188.88/MW-day.
- However, to stimulate retail shopping, the PUCO order AEP Ohio to charge CRES providers a discounted rate equal to the Reliability Pricing Model (RPM) price.
- The difference between the \$188.88 and the RPM price will be deferred and collected under a separate mechanism to be determined.
- AEP participates as a Fixed Resource Requirement (FRR) entity with PJM to fulfill capacity requirements not RPM. As such, AEP must calculate the RPM-based capacity charge for CRES providers thru 5/31/2015.

Data Flow Process



Determinants	Description	Source
Peak Load Contribution	Customer Peak Load Contribution adjusted for weather normalization.	AEP Load Research
X		
Final Zonal Scaling Factor	Accounts for (1) load growth from a prior-year summer to the Delivery Year; (2) any excess resources procured above those required to exactly meet the FPR requirements.	PJM Manual 18, Section 7
X		
Forecast Pool Requirement X	Establishes the level of unforced capacity (UCAP) that will provide an acceptable level of reliability consistent with PJM Reliability Principles and Standards.	PJM Manual 18, Section 2
Final Zonal Capacity Price	Based on third incremental auction in the AEP zone.	PJM Manual 18, Section 5
X	Topografication I according to a state of delitions of	DUA 0.477 AH
Transmission Loss Factor	Transmission losses up to point of delivery	PJM OATT Attachment H-14

Determinant Trend

Capacity Planning Years

	2012/2013	2013/2014	2014/2015
Final Zonal Scaling Factor*	1.06685	1.05732	1.031284
Forecast Pool Requirement*	1.0869	1.0889	1.0926
Transmission Loss Factor	0.034126	0.034126	0.034126
Final Zonal Capacity Price*	\$16.74	\$28.45	\$128.38

http://www.pjm.com/markets-and-operations/rpm/rpm-auction-user-info.aspx

^{*} Rates can be found at:

Future Process

Proposed (not yet finalized):

- CRES Providers will buy capacity based on RPM from PJM for the 2015/2016 planning year (after 5/31/2015)
- AEP Transmission Settlements will submit CRES Provider PLC's to PJM on a daily basis
- PJM will calculate and submit charge onto CRES Provider bill



Drops → to → Write-Offs

Kristine Watts

October 1, 2014

Frequent questions from suppliers...

- How are supplier charges and balances handled after receiving drop notice?
- How long will AEP Ohio attempt to collect supplier charges and forward payments?
- What happens if customer pays AEP Ohio for CRES charges after Write-Off Date?
- What happens if customer sends payment directly to CRES <u>before</u> Write-Off Date?

After the drop...

Will AEP Ohio accept supplier charges after drop notice?

Active Customers

- AEP Ohio accepts supplier charges after drop date for previous periods customer was with supplier.
- Planning to change this practice in future to reject charges after write-off date; watch for announcement.

Finalled Accounts

- AEP Ohio will accept supplier charges for one week past the account end date.
- Will reject after that date.

How long will AEP Ohio attempt to collect and forward payments?

Active Customers Switching to Different CRES or SSO:

- AEP Ohio will attempt to collect and forward payments for previous supplier for two bill cycles (80 days).
- Will send EDI 248 Write-Off transaction on day 81 for any remaining unpaid supplier balance.

Finalled Accounts

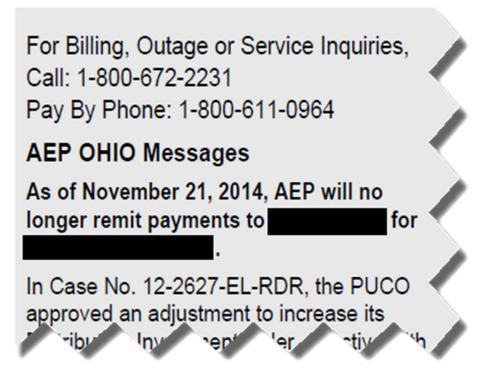
- AEP Ohio will attempt to collect and forward payments to supplier for 35 days after account end date.
- Will send EDI 248 Write-Off transaction on day 36 for any remaining unpaid supplier balance.

Important to note...

- Effective end date included in drop notice.
- If customer is opening service at a new location, AEP Ohio transfers only the utility's charges.

Customer bill BEFORE write-off...

 Bill message informs customer of last day AEP Ohio will forward payments to previous supplier.



Customer bill AFTER write-off...

Write-off appears on customer bill as: "Transfer to Previous Provider to Collect"

	Meter Number Cycle-≺oute Bill Date		te	
		12-02	Feb 18, 2014	
	Previous Charges:			
	Total Amount Due At Last	\$	452.36	
ries,	Payment 02/14/14 - Thank		-385.00	
	Transfer To Previous Prov		-316.94	
	Payment Agreement Insta		12.71	
	Previous Balance D	ue	\$	-236.87
is due.	Remaining Payment Agree	ement Amount	///	76.30

If customer pays AEP Ohio for CRES charges AFTER write-off . . .

- AEP Ohio no longer shows liability to CRES after the write-off is sent.
- Will not forward payment to CRES after write-off date.
- Will apply customer payment to customer's account.
 If results in credit balance on a closed account, we will refund customer or transfer credit balance to new account.
- Customer will not lose the benefit of that payment.

If customer pays CRES directly BEFORE Write-Off . . .

Recommended options:

 Supplier send refund check to customer so customer can pay AEP Ohio

- OR -

 Supplier send check to AEP's remittance address on customer's behalf

- OR -

 Supplier send EDI miscellaneous credit adjustment to apply to customer's account

Questions?



LUNCH!



Welcome from Customer Services & Marketing

Karen Sloneker

October 1, 2014



AEPCH Operations & Projects

Michelle Kaseff, Ken Roberts

October 1, 2014

Customer Choice Processes & Systems

- Provide support to multiple supplier support groups in AEP Ohio, AEP Texas, AEP I&M, AEP Appalachian Power - Virginia
 - Research and resolve process and system issues
 - Prioritize break/fix and enhancement requests
 - Manage the PJM supplier load carve-out
- Manage EDI Choice systems and transaction processing
 - Assure compliance with EDI guidelines
 - Perform EDI flight testing with new suppliers
 - Represent/support AEP operating companies in market working groups
 - Execute yearly Disaster Recovery system testing
- Prepare IT capital project work requests
 - IT Business cases and work requests
 - Perform user acceptance testing
- Implement and coordinate Sarbanes Oxley audit controls

What is AEPCH?

AEP Market Data Clearing House

- Suite of applications that handle the transfer of information between Choice Market participant systems and AEP systems.
 - Enrollment and Switching of Customers
 - Service Order Requests and Acknowledgements
 - Billing and Usage Data
 - Load Estimation and Reallocation for non-ERCOT markets
- AEPCH and help-desk support is managed by staff 6 days a week,
 Monday through Saturday until 9 pm.

System Improvements

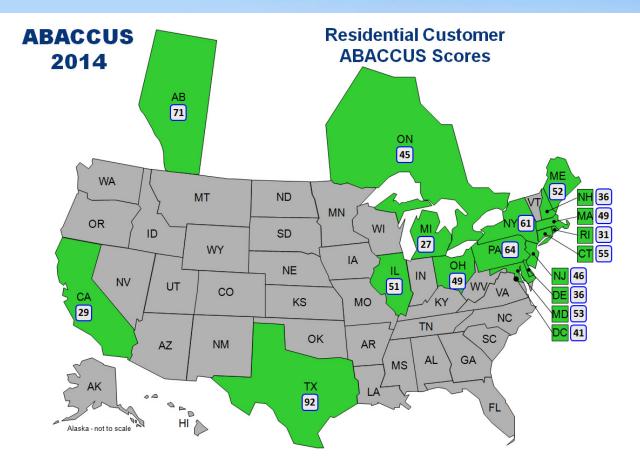
AEPCH Servers Life-cycled

- 8 Unix and 10 Intel servers (test, dev., QA and prod. regions)
- 29 Oracle databases and 5 SQL server databases
- 8 major applications
- 15 Billion rows / 750 gigabytes of data
- 334 user acceptance test cases executed
- Over 760 hours of system performance testing and tuning

On average the AEPCH processes over 6 million EDI transactions monthly - over 13 million including internal messaging

- Texas consumption data files
- Texas Invoice files
- Ohio bill data transactions
- Ohio enrollment requests
- Historical usage requests
- Michigan is in progress

Electric Deregulation in North America



Source: 2014 Annual Baseline Assessment of Choice in Canada

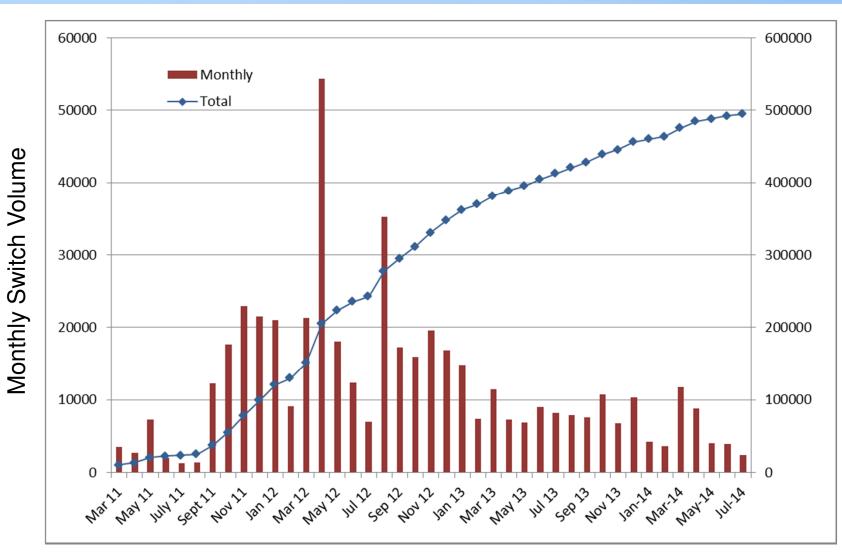
and the US (ABACCUS)
http://defgllc.com/publication

Residential Customers Taking Competitive Electric Service

Jurisdiction	Customers
Texas	5,854,000
Illinois	3,077,000
Ohio	2,106,000
Pennsylvania	1,877,000
New York	1,389,000
Connecticut	605,000
Alberta	542,000
New Jersey	536,000
Maryland	524,000
Massachusetts	399,000
Maine	214,000

Total Switched

AEP Ohio Monthly Switched Customers



Other Improvements

System/EDI Changes

- Replaced A13 Reject codes with OEWG approved codes
- Validations to not allow switches from two providers on the same date
- Removed minimum stay requirements
- Changed switch fee to bill providers and reduced to \$5
- Improved Historical Usage message responses
- Added budget billing indicator on EDI 814 ER
- Added rate sub-class description 867 HU

 change control
- Added the peak demand the EDI 814ER change control
- Implemented 810 Auto-cancel logic
- Added Net Metering indicator to Aggregation and Pre-enrollment lists

Ohio Market Changes

RMI Order

- Establish a Market Development Working Group (MDWG)
- Implement Seamless Move / Contract Portability / "Choice" Transfer within 1 year of MDWG approval
- Bill Format Changes: Provider Logos / Standard Terminology
- Additional data sharing requirements with CRES for customers on pay arrangements
- Code of Conduct Audit AEP 2016
- EDUs to offer time differentiated rates for AMI until market develops
- EDUs and Staff to develop "website registration system"

AEP Ohio Proposed Bill Format Changes

	A unit of American Electric Power	100-000-000 CY 18		\$250.30 Total Amount Due	\$Amount Enclo	sed
PC CA R-	nd Inquiries To: JBOX 24401 NTON, OH 44701-4401 10-9999999 584-1 000058401 AV 0.381	6575		Due Da The Neighbor to Neighbor pro disadvantaged customers pay It to help. My payment reflects my	heir electric bill. I want	\$
2			AME PO B CAN	CheckPayableandSend To: RICAN ELECTRIC POWER POX 24417 TON OH 44701-4417		

Service Address:	Rate Tariff: Residen	tial Service	-820	100			Page 1 of	
AEP OHIO CUSTOMER	Account Number		Total A	mount Due		Due Date)	
241 ANY RD	100-000-000-0	-0	\$2	250.30		Jun 13, 2014		
ANY CITY, OH 49999-9999	Meter Number Cycle-Route				Bill Date			
	99999999	99999999 18-07			10	May 28, 2014		
	Previous Charges:	W						
	Total Amount Due A	t Last Bill	ling			\$	109.10	
For Billing, Outage or Service Inquiries, Call: 1-800-672-2231	Previous Bala					\$	109.16	
Pay By Phone: 1-800-611-0964	Current AEP Ohio	o Charg	es:					
AEP OHIO Messages			W.	r Inn III				
As a participant in the AEP Ohio Customer	Tariff 820 - Residen		00	5/23/14				
Choice Program, your electric energy is being	Service Delivery Identifi		52000000	00000			65.7	
supplied by CRES NAME. This bill reflects AEP Ohio charges for distribution of the	Delivery Service Charge					\$	65.7	
electric energy and all electric energy supply	Current Border Energy Services Charges			E	70-			
charges AEP has received from your supplier as of the Billing Date shown on this bill. For	(888-999-9999): *********************************				DE			
questions about your electric energy supply	Service Delivery Identif	ier Numbe	r : 00040	6200000000	00	E N E	R G	
charges, please contact CRES NAME	05/23/14							
at 1-888-999-9999. Please note that the failure to pay charges for competitive retail electric	Supply Charges:				\$	75.3		
services (CRES) may result in								
loss of those products and services, the	Total Amount Due						\$250.3	
cancellation of your contract with the CRES	CONTRACTOR OF SECURITION							
provider, and your return to AEP Ohio's Standard Offer for generation services.	Due Date Jun 13							
Standard Offer for generation services.	Price-to-Compare: utility's supply charge							
	price of 8.8 cents pe							
	available competitive	supplier	offers, v	isit the Pub				
Registerforonlineservicesat	Ohio's "Energy Choi	ce Ohio"	website	at				
www.AEPOhio.com. Registration is free and easy and gives you the convenience of	www.xxxxx.com.							
24-hour access to your account. You can		•		,				
sign up for paperless billing, view your bill,	Meter	Service			Meter Read			
checkyourusage, update your contact	Number	From	То	Previous	Code	Current	Code	
information, and much more.	99999999	04/24	05/23	61774	Actual	62934	Actual	
	Multiplier					e 1,160 KW	Н	
	Next scheduled read	date shou	ild be be	tween Jun 2	3 and Jun 2	6		

In Progress Changes

Maintain Liability Project - Nov. 2014

- Switch/drop date within pend window
- Improved updates on on/off dates changes
- Cycle change after switch updates improved, no manual billing

Write-off logic - Nov. 2014

- FRED Financial Responsibility End Date
- New logic to limit 810 transactions after the write-off has occurred
- Rate Ready no bill calculations/no 810's
- 867's will still be sent

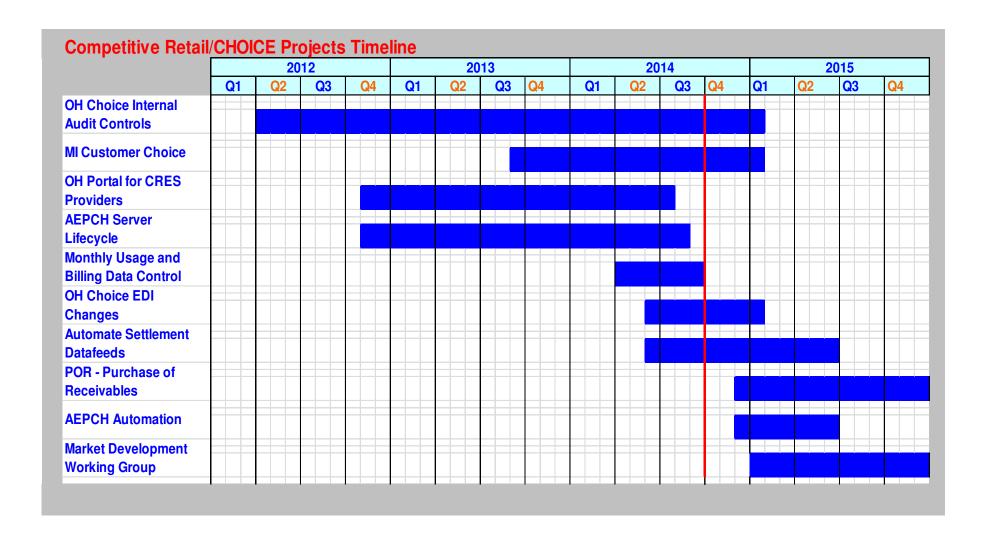
MI EDI - using same EDI as OH - Dec. 2014

Future Changes

EDI Working Group changes

- IP Add on peak and total usage as separate buckets on 867 HU (CC110)
- Add effective date to PLC and NSPL values in 867HU and 867 HIU
- Include data indicating a special meter configuration exists
- Include rate sub-class on Historical usage messages for non-meter accounts and 867 HI
- Populate effective date of adjust on/adjust off dates in 814C
- Send 824 reject when providers miss the bill window (Uniformity List)
- Add demand loop to 867 historical usage response
- Add standard interconnection point (Substation Name) to 814E
- Add third party info for copy of invoices

Choice Timeline



Questions?







AEP Ohio gridSMART®

Update for CRES Workshop Scott Osterholt

October 1, 2014



What is gridSMART®?



- gridSMART is deploying automation to improve the distribution network:
 - Advanced Metering Infrastructure (AMI)
 - Meter related labor reductions
 - Remote reconnections
 - Facilitates time-of-use (TOU) tariffs and other customer programs
 - Distribution Automation Circuit Reconfiguration (DACR)
 - Improve outage identification and restoration times
 - Improve circuit reliability
 - Potential crew savings ~ up to 2 hours per event
 - Volt VAR Optimization (VVO)
 - Reduction in energy consumption (~3 percent)
 - Reduction in peak demand on circuits (~2 percent-3 percent)

gridSMART® Phase 1

\$150M Demonstration Project with the following major components



Community Energy Storage



Consumer Programs - 10k participants



DACR - 70 circuits



Cyber Security



Operations Center



Customer Education and Outreach



AMI Meters -132k Deployed



Smart Appliances -20 participants



Volt VAR Optimization - 17 circuits





77

gridSMART® Phase 1: Success!



Distribution Automation

• 6,666,394 customer outage minutes reduced (data from 9/20/2014)

Volt VAR Optimization

 Reduced overall and peak energy consumption by approximately 3 percent

AMI Meters

131,500 meters deployed

Consumer Programs

- 11,785 Customers Enrolled in six Consumer Programs
- 8,930 Installations Completed
- 4,181 Current Active Participants (data from 9/10/2014)

gridSMART® Phase 2 Plan



Scope

- Advanced Metering Infrastructure (AMI) in most populated cities – approximately 900,000 meters
- Distribution Automation Circuit Reconfiguration (DACR) on approximately 250 circuits
- Volt VAR Optimization (VVO) on approximately 80 circuits

Deployment – 4 years

- AMI approximately \$165M initial Capital
- DACR approximately \$110M initial Capital
- VVO approximately \$20M initial Capital

gridSMART® Phase 2 Status



Still working toward approval

- Numerous stipulation discussions with Interveners
- Awaiting impact and effects of EPA Rule 111D on VVO

Time-of-Use (TOU) Tariffs

Desired Outcomes by Party

- AEP Ohio views TOU as a generation market option (we are an infrastructure provider)
- PUCO Staff appears focused on having TOU programs available for customers from Day 1
- CRES Providers appear interested in offering these programs and for AEP Ohio to be able to provide billing data and billing services



gridSMART® TOU Program Transition Plan

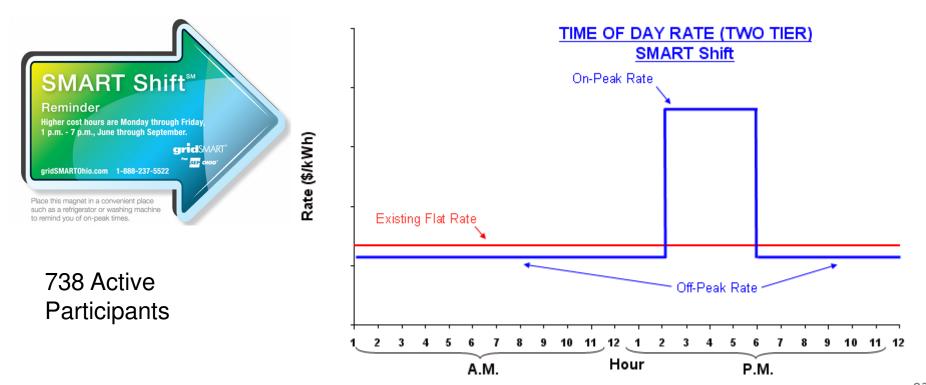
- AEP Ohio continues to offer existing gridSMART TOU programs in the short term
- CRES could provide pricing program alternatives
- CRES programs would need to mimic gridSMART programs in the short term
- Rate Ready and Bill Ready Billing Services available (pending funding)
- CRES would call CPP events 24 hours in advance
 AEP Ohio to administer
- CRES would be responsible for customer communication for CPP events
- Transition via program termination communication from AEP Ohio – citing other alternatives



SMART Shift[™]

2 tier Time-of-Day (TOD) – on/off peak

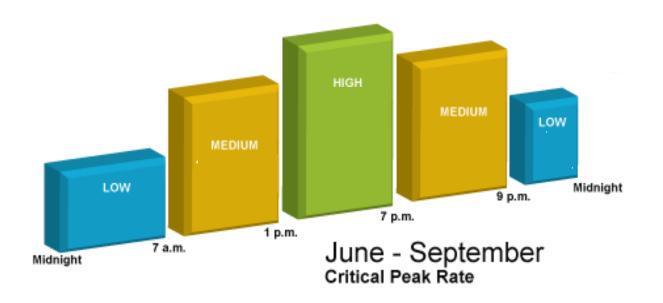
- On Peak June 1 to Oct. 1 from 1pm 7pm (non-holiday weekdays only)
- Off Peak all winter & June 1 to Oct. 1 from 7pm to 1pm



SMART Shift Plus[™]

 3 tier + Critical Peak Pricing (CPP) – on/off/shoulder/fixed price CPP







October - May

140 Active Participants

TOU Transition Timeline

Transition Timeline for moving TOU programs to CRES providers 2014 2015 2016 2017																
	Q1	Q2	Q3	Q4												
AEP Ohio maintains existing TOU programs																
Develop System/Process to enable CRES offered Bill-Ready SMART Shift TOU																
Develop System/Process to enable CRES offered Rate-Ready SMART Shift TOU																
Develop System/Process to enable CRES offered Rate-Ready SMART Shift Plus TOU																
Develop System/Process to enable CRES offered Bill-Ready SMART Shift Plus TOU																
Administer the Customer Transition Communication																
CRES Providers provide customers with TOU options using the AEP Ohio SMART Shift and SMART Shift Plus framework																
AEP Completes MDM Version 2 Project																
AEP Ohio developes CRES AMI interval data portal																
AMI Interval Data available via CRES Portal																
CRES Providers offer their TOU																

Questions?





Reinstatements - 814R

Anita Adams

October 1, 2014

Reinstatements

• Ohio Electric Implementation Guidelines

• EDI 814R

Reinstatements

Ohio EDI Guidelines Says...

- 814R is used for:
 - Reinstatements
 - Response
 - Request

Who Submits 814R's

- Suppliers
- AEP Ohio

Supplier Uses 814R...

Supplier Scenario:

- Supplier submits a drop due to an expired customer contract
- Customer signs renewal or new contract with same supplier
- Customer wants to return to supplier
- Supplier wants to stop the drop
- Must be at least 6 days prior to drop date

AEP Ohio Uses 814R

AEP Ohio Scenario:

- Customer is with Supplier A and enrolls with Supplier B
- Drop notice sent to Supplier A
- Customer objects to switch to Supplier B during rescission period
- AEP Ohio sends 814R to Supplier A

Ohio EDI 814R

Reinstatement to current provider:

H.ST: ST*814*0001H.BGN:

BGN*13*CRES4330363B405665999*20140301H.N

1.N1: N1*8S*OHIO POWER

COMPANY*1*002899953**41H.N1.N1: N1*SJ*

N1*SJ*SUPPLIER NAME

SERVICES*1*077778954**40H.N1.N1:

N1*8R*CUSTOMER NAME

INC*92*0793468132B.LIN.LIN:

LIN*REIN5638111*SH*EL*SH*CEB.LIN.ASI:

ASI*7*025B.LIN.REF:

REF*1P*EB3*WITHDRAWNB,LIN,REF:

REF*Q5*00140060793468132B.LIN.DTM:

DTM*150*20140310B.SE: SE*11*0001





Questions?



BREAK!



Variance in Billable Usage Compensating Meter Multiplier Interval Usage from Portal (Time Permitting)

Doug Hinkle

October 1, 2014

What we'll cover...

- What is the variance in usage?
- What causes the difference?
- Why is there a difference?
- CMM Factors
- How this may/may not impact billing
- Interval data from the web portal

Actual Inquiry

Provider contacts AEP Ohio:

"We have received usage for period 7/28 - 8/28 and the summary data is posted as 5,349,600 kWh however the sum of the intervals equals 5,347,311.84 kWh Could you please verify this data? What is the reason for the discrepancy?"

Where the difference is...

- AEP Ohio bills the summary usage value
 - Based on the index reads from the meter
- If you bill the customer based on the intervals or are comparing, there will almost always be a difference.

Continuing with the example...

- July 28 AEP gets index read of 017089
 - An index read is not the usage, but the physical numerical display on the meter itself.
 - We're also obtaining the intervals (via phone line, probing, etc)
- August 28 AEP gets an index read of 017832
- The customer has a bill constant of "7200"
 - For every increment, advancement or 'tick' on the meter, it's multiplied by 7200

Index Reads

August 28



July 28



17832 - 17089 = 743

Doing the math...

017832-017089=743

This means the meter has seen increments or "ticked" 743 times over the revenue period.

743 x 7200 (Bill Constant or Meter Multiplier)= 5,349,600 kWh

There is typically a variance within +/- (2*Bill Constant) between the cumulative usage and intervals when they're compared.

EDI 867MU

Revenue Periods

B.PTD.DTM: DTM*150*20140728

B.PTD.DTM: DTM*151*20140828

B.PTD.REF: REF*MG*Meter A

B.PTD.REF: REF*MT*KH015

B.PTD.REF: REF*JH*A

B.PTD.QTY.QTY: QTY*QD*5349600*KH Index Reads

B.PTD.QTY.MEA: MEA*AA*PRQ*5349600*KH*17089 17832 51

B.PTD.QTY.MEA: MEA**MU*7200 Meter Multiplier

Questions?



Compensating Meter Multiplier

- Depending on where the meter is placed in regards to the official delivery point of the customer and the transformer (accounting for core loss), AEP Ohio applies a factor to some customers' metered usage to determine the billable amount.
 - ~125 switched accounts currently
 - 17 have a factor of 0.98 applied
 - The remainder have a factor of 1.01 applied

Current AEP 867MU in Production

- AEP communicates the core loss factor in the MEA segment
 - MEA**CO*1.01
- The QTY segment in the summary loop contains the <u>metered</u> usage.
 - CMM Factor not applied to this value
 - Individual intervals are <u>billed</u> usage.
 - CMM Factor applied to each 15-minute interval

Non-Interval Account

- **B.PTD.PTD: PTD*SU**
- B.PTD.DTM: DTM*150*20140725
- B.PTD.DTM: DTM*151*20140822
- B.PTD.QTY.QTY: QTY*QD*15600*KH <---Metered Usage (CMM Not applied)
- B.PTD.PTD: PTD*PL
- B.PTD.DTM: DTM*150*20140725
- B.PTD.DTM: DTM*151*20140822
- B.PTD.REF: REF*IX*5.00*KHMON*TU~51
- B.PTD.REF: REF*JH*A
- B.PTD.REF: REF*MG*METER A
- B.PTD.REF: REF*MT*KHMON
- B.PTD.REF: REF*NH*840
- B.PTD.REF: REF*PR*221
- B.PTD.QTY.QTY: QTY*QD*15600*KH
- B.PTD.QTY.MEA: MEA*AA*PRQ*15600*KH*274*287*51
- B.PTD.QTY.MEA: MEA**MU*1200
- B.PTD.QTY.MEA: MEA**CO*.98 <---Core Loss Factor

Interval Account

- B.PTD.DTM: DTM*150*20140731
- B.PTD.DTM: DTM*151*20140828
- B.PTD.REF: REF*MG*METER A
- B.PTD.REF: REF*MT*KH015
- B.PTD.REF: REF*JH*A
- B.PTD.QTY.QTY: QTY*QD*352800*KH <---Metered Usage (CMM not applied)
- B.PTD.QTY.MEA: MEA*AA*PRQ*352800*KH*613*662*51
- B.PTD.QTY.MEA: MEA**MU*7200
- B.PTD.QTY.MEA: MEA**CO*1.01 <---Core Loss Factor
- B.PTD.PTD: PTD*PM
- B.PTD.QTY.QTY: QTY*QD*103.26*KH
- B.PTD.QTY.DTM: DTM*194*20140731*001500*ET
- B.PTD.QTY.QTY: QTY*QD*101.81*KH
- B.PTD.QTY.DTM: DTM*194*20140731*003000*ET
- B.PTD.QTY.QTY: QTY*QD*101.81*KH
- B.PTD.QTY.DTM: DTM*194*20140731*004500*ET



Individual intervals where CMM are applied.



How it could impact billing...

DATE	TIME	Metered kWh	Billed kWh (1% higher)
073114	0015	102.240	103.26
073114	0030	100.800	101.81
073114	0045	100.800	101.81

B.PTD.QTY.QTY: QTY*QD*103.26*KH

B.PTD.QTY.DTM: DTM*194*20140731*001500*ET

B.PTD.QTY.QTY: QTY*QD*101.81*KH

B.PTD.QTY.DTM: DTM*194*20140731*003000*ET

B.PTD.QTY.QTY: QTY*QD*101.81*KH

B.PTD.QTY.DTM: DTM*194*20140731*004500*ET

Summary Usage sent = 352,800 kWh AEP Ohio Bills = 356,328 kWh

1% Difference in this scenario (for one month) is 3,528 kWh

If you're billing your customer the summary value, you may be under/overbilling your customer.

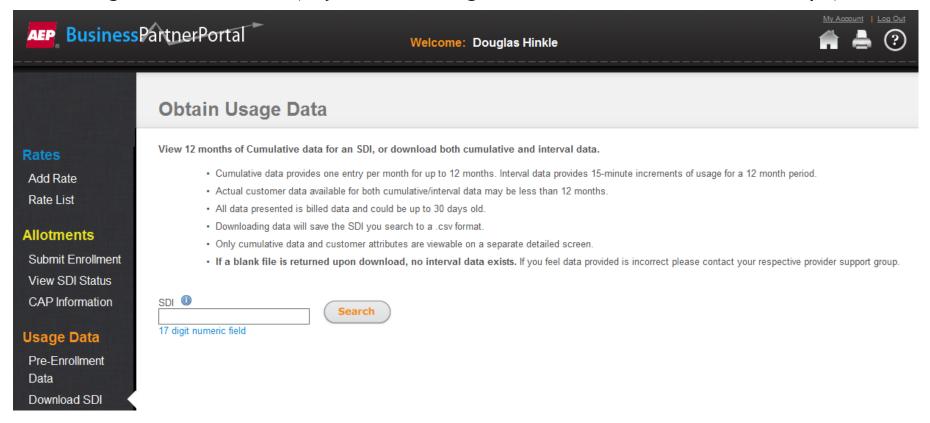


Questions?



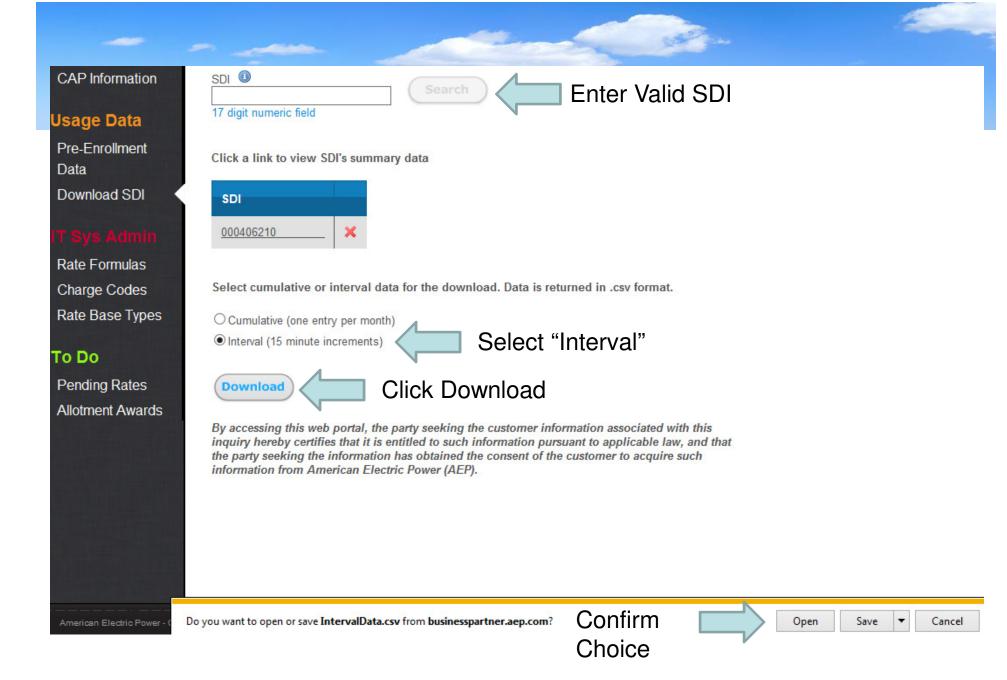
Obtaining Interval Data from BPP

- https://businesspartner.aep.com
- Log In with UN/PW (if you're not registered, contact Ohio Choice Ops)



Obtaining Interval Data

- Enter valid SDI
- If interval data is available, select "Interval" radio button
- Click "Download"
- After some time, a prompt will ask whether you would like to Open, Save or Cancel



Business Partner Portal

- AEP displays the billed usage
- CMM factor applied

Detailed Summary Screen:

Month	Tariff Code	Bill Period Start	Bill Period End	# Of Days in Period	Billed kWh	On Peak kWh Usage	Off Peak kWh Usage	Billed kW	Interval Data
1	861	08/01/2014	08/29/2014	28	356328.0000000	0.0000000	0.0000000	1000.0000000	Υ
2	861	07/02/2014	07/31/2014	29	341784.0000000	0.0000000	0.0000000	1000.0000000	Υ
3	861	06/03/2014	07/01/2014	28	341784.0000000	0.0000000	0.0000000	1000.0000000	Υ
4	861	05/02/2014	06/02/2014	31	283608.0000000	0.0000000	0.0000000	1000.0000000	Υ
5	861	04/02/2014	05/01/2014	29	225432.0000000	0.0000000	0.0000000	1000.0000000	Υ

Questions?



Contact Info
Doug Hinkle
drhinkle@aep.com
(614)716-1338

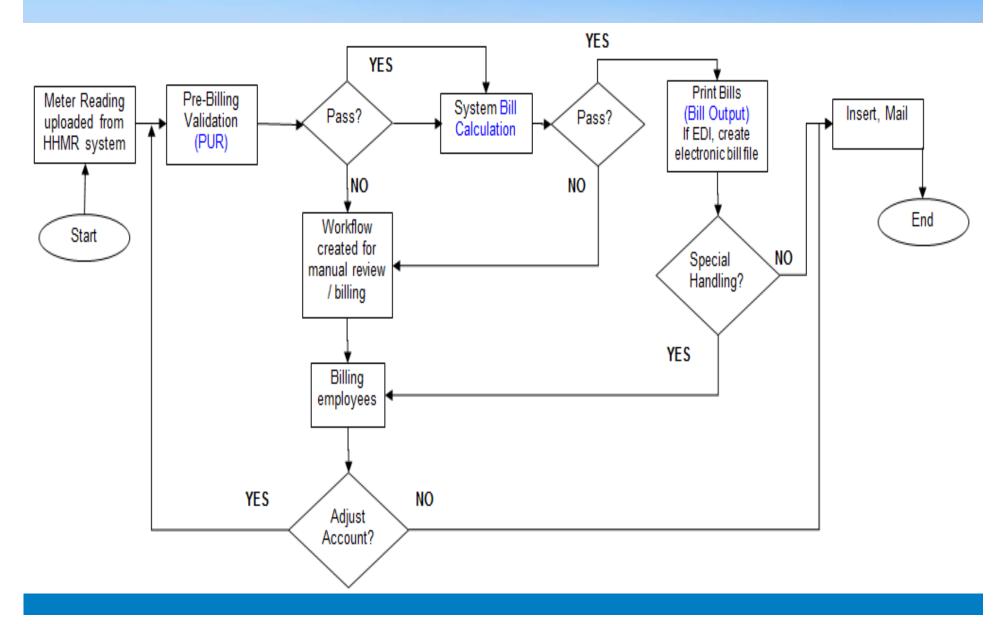


Billing Validations & Budget

Billy Brumfield

October 1, 2014

Billing Validations



Billing Validations - PUR "Nobills"

=4	07	10	Grand
BN-EXCD 75% CAP	3,640	5,365	9,005
BN-MTR NO EST	1,102	1,182	2,284
BN-LD FACT <1%	674	492	1,166
BN-CUR LT PV RD	449	690	1,139
BN-EXCDS 600/DY	229	556	785
Grand Total	8,458	10,595	19,053

- Exceeds 75% Capacity (47% of total) = Difference in meter registration reaches 75% of capacity; 7,500 on a four (4) dial meter, 75,000 on a five (5) dial meter (most common), or 750,000 on a six (6) dial meter
- Meter No Estimate (12% of total) = Meter cannot be "system" estimated
- Load Factor <1% (6% of total) = Reading is outside range (More KW than KWH)
- Current less than Previous (6% of total) = Current actual demand (KW) is lower than last months estimated demand
- Exceeds 600 KWH Per Day (4% of total)

Billing Validations - Bill Calc "Nobills"

- Current Bill is 10 times greater than the highest bill for the past 12 months
- Current Bill is greater than the tariff's maximum amount threshold
- Current Bill is less than \$0.00

Billing Validations - Other Exceptions

- Zero use for two consecutive periods
- Zero use for 6 consecutive months
- No readings received for 6 months or more
- An account in "Active Disconnect" status (credit related) will not bill until it becomes "Active" or "Final."
- Current Bill is 2 times greater than the highest bill for the past 12 months
- Requested by Office Someone needs to review the bill before it is mailed

Billing Validation Questions?



Budget

- As soon as customer switch is processed, Customer Operations Billing receives a system workflow to review
- All about Timing
- Example: Customer received bill 4/17/14
- Called a Provider and switched 4/24/14
- Switch confirmation effective 5/20/14
- Next Bill 5/19/14
- First Bill with Provider 6/18/14

Budget Calculation

- The system automatically calculates the budget amount using the following calculation
- = A(daily average of the AEP distribution charges and RS rider {487-1D}) * 30 "+" B(daily average of the account deferred amount) * 30
- Or A * 30 "+" B * 30

Budget Calculation Example

Activity Date	# of Days	AEP BIII	EPP Amt	Deferred
9/17/2014	30	100.00	143.00	400.00
8/18/2014	31	100.00	141.00	450.00
7/18/2014	30	90.00	139.00	475.00
6/18/2014	30	90.00	140.00	520.00
5/19/2014	32	200.00	312.00	565.00
4/17/2014	30	275.00	312.00	670.00
3/18/2014	28	315.00	308.00	704.00
2/18/2014	30	455.00	303.00	695.00
1/19/2014	33	415.00	293.00	540.00
12/17/2013	33	390.00	284.00	420.00
11/14/2013	29	230.00	270.00	310.00
10/16/2013	29	150.00	264.00	350.00

Budget Calculation Example

- If the Anniversary Date is December 2014
- Then the calculation is:
- 10/16/13 D Charges + 11/14/13 D Charges + 12/17/13
 D Charges = \$385
- 10/16/13 GRSR + 11/14/13 GRSR + 12/17/13 GRSR = \$24
- 10/16/13 # of Days + 11/14/13 # of Days + 12/17/13 # of Days = 91
- A = \$385 + \$24 / 91
- A = \$4.49 per day * 30
- A = \$135.00

Budget Calculation Example

- Now for "B" side
- B = \$400.00 / 91
- B = \$4.40 * 30
- B = \$132.00
- Budget Due = A + B
- Budget Due = \$135.00 + \$132.00
- Budget Due = \$267.00
- What about Average Monthly Payment Plan (AMP)?

Budget Questions?



Q & A

THANKS FOR ATTENDING!

AEP Ohio Choice Operations

