



CenterPoint Energy OHIO Choice Program Overview

July 2022

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- Supplier Application Questions:
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CenterPoint's Choice Supplier Approval Process

CenterPoint Energy Ohio's Choice Supplier Approval Process



1. Supplier submits:

- Choice Supplier Application Form (with requested financial information)
 - Suppliers must indicate on the application:
 - Customer list request
 - Customer Billing option selection (consolidated or dual)
 - Pooling intentions (mercantile, non-mercantile)
 - Requested contact information
- Partially executed Choice Supplier Pooling Agreement
- Copy of PUCO certification
- Connectivity Profile
- Pay a \$1,000 fee for Company to obtain and maintain a first priority perfected Uniform Commercial Code – 1 (UCC-1) lien and related administrative procedures
- Remit a \$3,000 deposit for Electronic Data Interchange (EDI) testing and successfully completed EDI testing requirements. If Choice Supplier applicant is approved to participate in the Choice Program and begins serving Choice customers within ninety days of approval, the EDI testing deposit will be refunded without interest.
- **Checks should be made out to CenterPoint Energy and send along with the Application form.**

2. CenterPoint Energy Ohio performs financial evaluation

- *Consolidated Billing:*
 - A first priority security interest in the customer receivables (in the case of Suppliers electing to utilize consolidated billing); or
 - An irrevocable standby letter of credit from a financial institution that meets CenterPoint Energy Ohio's approval in an amount equal to the expected customer receivables from the prospective Supplier's customers for the peak two consecutive months over the year (in the case of Suppliers electing to utilize consolidated or dual billing).
- *Dual Billing:*
 - A letter of credit to fully collateralize any potential exposure deemed necessary by CenterPoint Energy Ohio.

3. Pass EDI certification testing with ESG

What's next?



Once approved by CenterPoint Energy Ohio, Choice Supplier may proceed with the following:

1. Solicit customers
 - Must attain and maintain no less than 100 customers or 10,000 Mcf annual load
 - CenterPoint Energy Ohio suggests attaining at least 150 customers to be enrolled in the first month as many will not be Choice eligible, or may rescind the enrollment
2. Receive eligible customer list
 - CenterPoint Energy Ohio will host an ftp for purposes of providing supplier with a Choice Eligible Customer List, and monthly reports
 - Files are encrypted, and PGP keys will need to be exchanged
1. Submit request for rates via CenterPoint Energy Ohio's Rate Submittal Form to SupplierRateGroup@CenterPointenergy.com
 - New Supplier rates must be received by CenterPoint Energy Ohio at least 30 days in advance of the 1st of the month start date
2. Inclusion in PUCO "Apples to Apples" Chart
 - Rates may be submitted to PUCO

CenterPoint Energy Ohio will provide one on one training via conference calls with new Choice Supplier's business units.

Choice Supplier Performance Obligations



- Must be listed on pipelines' approved bidders list and accept monthly mandatory capacity releases of CenterPoint Energy Ohio Capacity. Current capacity includes:
 - Panhandle
 - Columbia Gas Pipeline
 - TETCO
 - ANR (beginning April 1, 2016)
- Maintain comparable firm capacity/supplies
 - Proof must be submitted annually to CenterPoint Energy Ohio by October 31st
- Maintain no less than 100 eligible customers or 10,000 Mcf/year
- Adhere to CenterPoint Energy Ohio tariff terms and conditions, and CenterPoint Energy Ohio's executed Choice Supplier Pooling Agreement.

ELIGIBLE CUSTOMERS

- Mercantile Customer” is a non-residential customer that uses > 5,000 Ccf/year at a single location or > 3 locations.
- Rules for competitive retail gas service (i.e. HB 9) are effective for Non-Mercantile customers and their Suppliers.
- CenterPoint Energy Ohio’s Choice tariffs are available to Mercantile and Non-Mercantile customers using < 150,000 Ccf/year. Therefore, it implements the same (HB 9) requirements for both with the exception of:
 - PUCO Certification required to serve Non-Mercantile
 - PUCO approval required to terminate Non-Mercantile Supplier
- Mercantile and Non-Mercantile customers may be combined in the same pool (and thereby one DDQ and pool bill) provided that:
 - Supplier is certified with PUCO
 - Mercantile default process is followed
- CenterPoint Energy Ohio strongly suggests one combined pool to reduce Supplier administration.

Choice Eligible Customers



- Uses < 150,000 Ccf/year
- Is not 35 days past due and owe more than \$100 at time of enrollment
- Is not past due on a payment arrangement
- Is not a PIPP customer

Breakdown of Choice Eligible Customers



- Customers with annual usage < 150,000 Ccf as of July 2019

	July-19
Total Customer Count	319,440
Choice Eligible	306,839
Total Choice	132,546
Pipp	9,459

CUSTOMER ENROLLMENT

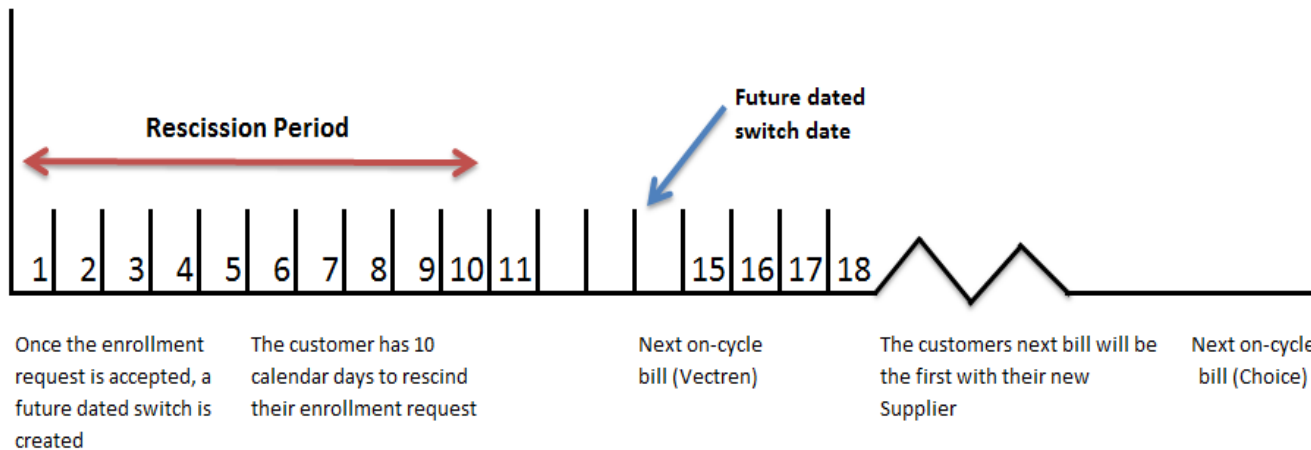
High Level Customer Enrollment Process



1. Customer enters into a contract with a Choice Supplier.
2. Choice Supplier sends EDI enrollment request transaction to CenterPoint Energy Ohio.
3. CenterPoint Energy Ohio validates the enrollment request and sends an acceptance or rejection EDI transaction to the Choice Supplier within 3 business days.
 - Response target is 1 business day
 - File contains customer's anticipated enrollment date
4. Customer joins the Choice Supplier's pool with their next on-cycle read date after a 10-calendar day rescission period (from the date CenterPoint Energy Ohio sends letter to customer).

- Projected Enrollment Date is set at the next meter read date 10 calendar days (typically 7 business days) after the customer notice is created.
- CenterPoint Energy Ohio must receive enrollment request from Suppliers 10 calendar days prior to scheduled read date.

Meter Read Cycle	Customer Notice Created	Rescission Period End	Next On-Cycle Bill Date	Enroll Date
1	15-Apr	25-Apr	1-May	1-May
14	15-Apr	25-Apr	24-Apr	24-May
18	15-Apr	25-Apr	29-Apr	29-Apr



Reasons for Rejection of an Enrollment



- Main Reasons an Enrollment is rejected:
 - Account is delinquent
 - Inaccurate Account Number
 - Customer is on PIPP
 - Account is Inactive
 - Customer is already pending with a new Supplier for that period
 - Customer usage > 150,000 Ccf/year

- Customers remain with their Supplier until:
 - The Supplier sends a drop request
 - The customer is DNP for delinquency
 - The customer joins the PIPP program
 - Another Supplier enrolls the customer
 - The customer asks CenterPoint Energy Ohio to drop them
 - The customer moves out of their current residence

TRANSACTION PROCESSING

- CenterPoint Energy Ohio has partnered with ESG to provide transaction management services between CenterPoint Energy Ohio Banner CIS and Suppliers. All Choice file transfers will come through ESG.
- All Choice Suppliers must pass EDI testing with ESG before initiating enrollments.
- ESG will contact Supplier once Supplier meets CenterPoint Energy Ohio participation requirements.
- ESG and Supplier will implement a test plan that tests connectivity and data transmission. This test plan is tailored to the Supplier's billing election (dual or consolidated).
- Testing takes approximately 4 weeks for dual billing and 6 weeks for consolidated.

- Communication via FTP using PGP encryption
- Suppliers may send files 24 hours a day
- Inbound files are processed by ESG Hourly
- Supplier transactions will be processed by CenterPoint Energy Ohio's Banner CIS once a day as part of the nightly batch process.
- Outbound files are processed by ESG immediately

- General Account Administration (GAA)
 - Enrollments
 - Changes
 - Drops
 - Reinstatement
- Usage (USG)
 - Monthly (original, cancelled)
 - Historical Usage (on request)
- Invoice (INV)
- CenterPoint Energy Ohio does not send payment files
- All transactions must be sent through ESG using the defined standards.

High Level Customer Drop Process



- It is not necessary for the current Supplier to submit a file to drop a customer before the customer can be served by another Supplier.
- If two Suppliers send a request to enroll a customer in the same processing period, the customer will be assigned to the Supplier whose request was received first.
- Customers may rescind via phone, mail, or through CenterPoint Energy Ohio's Call Center. Only the Customer (not the current Supplier) may rescind an enrollment during the recession period.
- If a customer rescinds their enrollment, a drop notification is sent to the recent Supplier and a reinstatement transaction is sent to the previous Supplier.

- Customers are able to enroll their new, inactive account with a Choice Supplier
- Suppliers must submit the enrollment before the read date + the rescind period.
- If the enrollment is received within that date, the enrollment will be rejected and the customer will be billed on the SCO Rate.
- CenterPoint Energy Ohio will advise the customer of the new account number when the service order is created.
- CenterPoint Energy Ohio will also advise current Choice customers that they may call their Supplier to advise them of the move and the new account number so that any existing contracts can be transferred.

CUSTOMER RATES & BILLING

Supplier must select one option for all of its Choice customers:

- CenterPoint Energy Ohio-generated Consolidated bill
 - Dual Billing
-
- This option can be changed annually with 90 days prior written notice. All of the Supplier's existing customers will be migrated to the new billing option.
 - On the onset of the program, there is no charge for billing services.
 - CenterPoint Energy Ohio will not bill Supplier's penalties or termination fees.
 - CenterPoint Energy Ohio does not bill for Suppliers' non-commodity products and services.
 - CenterPoint Energy Ohio is not able to include Supplier's logo on its bills.

Sales tax on Supplier charges:

- Supplier charges are subject to sales tax.
- Supplier will provide the taxing county on the enrollment request.
- Supplier will provide any customer tax exemption information on the enrollment request or a subsequent change request.
- Supplier rates submitted to CenterPoint Energy Ohio should be exclusive of sales tax.
- Suppliers will be responsible for remitting sales tax to the relevant state and county authorities (Information needed by Supplier is contained in EDI customer invoice files).
- CenterPoint Energy Ohio does not refund billed taxes. Customer must request the refund from the State.

- CenterPoint Energy Ohio performs all meter reading, charge calculation, bill preparation and collections responsibilities.
- Supplier may use any rate structure automatically billed by CenterPoint Energy Ohio's standard billing system. Charges may be negotiated for adapting billing system to bill alternate rate structures.
- Supplier's charges are subject to the same billing proration rules as CenterPoint Energy Ohio's sales service which is currently based on days of service and heating degree days.
- Prices for each Supplier rate may only be changed once per month effective with the first day of the month.
- Suppliers are limited to 25 new rates per year, and there is no charge for rate submittals.
- CenterPoint Energy Ohio currently purchases 100% of the receivables

Submittal of Supplier Rates



Timeline:

- Suppliers will notify CenterPoint Energy Ohio of changes to existing rates no later than Noon CST on the 2nd business day prior to the end of the month using CenterPoint Energy Ohio's Rate Request Form. All rate requests should be e-mailed to SupplierRateGroup@CenterPointenergy.com.
- CenterPoint Energy Ohio will send out changes for confirmation by 10 AM CST on the last business day prior to the end of the month.
- Suppliers must confirm the proposed changes no later than Noon CST the last business day of the month in order for the rate to become effective.
- If confirmation is not received by noon the last business day of the month, the current rate will remain in affect and the proposed change will not go into effect until the next business month.
- CenterPoint Energy Ohio will need 30 days notice for new rates. The new rate form must be submitted 30 days in advance. The actual rate to be billed to customers can be updated based on the changes to the existing rate timeline outlined above.
- CenterPoint Energy Ohio is not responsible for any customers being billed the rate submitted on the original new rate form if Supplier does not submit the actual rate change within the timeline outlined above. In such case, the customers' bills will not be corrected.
- *Note - If an EDI rate change request is made within 7 days of the last read date, the new rate will take effect as of that read date.

- CenterPoint Energy Ohio performs all meter reading.
- Meter reading information will be provided to the Supplier to enable them to bill the customer for the supply charges.
- CenterPoint Energy Ohio will bill for its own charges only.
- The CenterPoint Energy Ohio bill indicates the Supplier's name and a statement that Supplier charges will be invoiced separately by their Choice Supplier.

- Choice customers may participate in budget billing upon program implementation.
- A budget customer who enrolls in Choice will automatically remain on the budget program.
 - No settle up or change in budget amount at Choice enrollment.
 - A non-budget Choice customer may join the budget billing program at any time.
 - The budget bill amount will be adjusted for Customers enrolling in Choice with a Supplier electing Dual Billing.
- Suppliers electing Consolidated Billing will be paid the value of the gas consumed (utility receives budget payment amount).

CUSTOMER DELINQUENCY

- When on Choice, a customer will be disconnected for non-payment of charges contained on its CenterPoint Energy Ohio bill.

- Customers are dropped from Choice for non-payment when the physical disconnection of gas takes place.
 - Customers with past due charges on their CenterPoint Energy Ohio bill will be warned via a bill message that they will be dropped from Choice if they are disconnected for non-payment.

 - If the customer is disconnected, the customer will be dropped from Choice. The customer will be informed by a bill message & the Supplier will be informed by an EDI file.
 - If service is reconnected within 10 days, a reinstatement transaction will be created with the reactivation date.

 - If service is not reconnected within 10 days, an eligibility check will be done. If eligible, they will be enrolled with the SCO Provider for the premise. If not eligible, they will default to DSS Service.

- Dual Billing Delinquency:
 - CenterPoint Energy Ohio can drop the customer for past due CenterPoint Energy Ohio charges.
 - The Supplier has collection responsibilities for its own charges.
 - The Supplier cannot request CenterPoint Energy Ohio to disconnect the customer.
 - The Supplier can drop the customer from Choice after the Supplier has issued mandated notices to the customer.
- Re-enrollment after Delinquency Drop:
 - When a customer has been dropped from Choice for non-payment, any past due balance with CenterPoint Energy Ohio must be paid before the customer may re-enroll in Choice.
 - A new enrollment is required for the customer to re-enroll in the Choice program, unless the customer reconnects within a 10 day period.

GOVERNMENTAL AGGREGATION

- What is Government Aggregation?
 - Ohio's laws allow for communities - such as cities and counties - to form aggregated buying groups on behalf of their citizens. The governmental aggregator chooses a Supplier for all of the customer-members in its group.
- What Certifications are Required?
 - Supplier and Government Aggregator must be PUCO certified.
 - The Supplier must meet CenterPoint Energy Ohio requirements.
- Which customers are not eligible?
 - PIPP customers,
 - Customers already under contract with a Supplier as part of Choice (unless they terminate their current Supplier agreement), and
 - Customers using > 5,000 Ccf/year (Mercantile customers)

- **Opt-in Aggregation**
 - A program that permits each customer to sign up individually to participate in the program. If the local government chooses Opt-in aggregation, it can proceed to develop a plan and start signing up customers.

- **Opt-out Aggregation**
 - A program that automatically enrolls all local residents, unless they individually opt-out of the program. If a community chooses this form of aggregation, a number of steps are required:

Formation of an Opt-out Aggregation

- A majority of voters must authorize opt-out aggregation in an election.
- If authorized by a majority of the vote, the local government must form a plan of operation and management. They must also hold at least two public hearings to allow customers to voice any concerns over the proposed plan.
- Each customer to be aggregated must be notified that they will be automatically enrolled in the program unless they specifically elect not to participate.

CenterPoint Energy Ohio's Responsibilities



- CenterPoint Energy Ohio will work with approved aggregators to provide a list of eligible customers within the specified boundaries.
 - A minimum of two weeks lead time is required.
- CenterPoint Energy Ohio can support identification of the boundaries through Zip codes (not Zip+4).

GAS MANAGEMENT

CenterPoint Energy Ohio's System Balancing



- CenterPoint Energy Ohio's Columbia Pipeline Group (TCO) Firm Storage Service (FSS) agreement provides most of CenterPoint Energy Ohio's system balancing capability – hourly, daily and monthly.
- SCO/Choice Suppliers collectively balance CenterPoint Energy Ohio's system
 - CenterPoint Energy Ohio does not retain a portion of TCO storage to perform the system balancing function.
 - CenterPoint Energy Ohio mandates release of its TCO storage capacity to these Suppliers. The Suppliers are responsible for filling and emptying the storage account.
 - Choice/SCO holders of CenterPoint Energy Ohio's released TCO storage capacity collectively provide system balancing via an auto-balancing feature on TCO that has been specifically designed for CenterPoint Energy Ohio
- The Suppliers must agree to allow their TCO storage (individually and in aggregate) to be used to balance the CenterPoint Energy Ohio system.
- Suppliers must agree to follow CenterPoint Energy Ohio-established:
 - Min/Max boundaries for daily storage injection/withdrawal
 - Minimum storage inventory balances to ensure sufficient storage inventory injection/withdrawal capability to balance the system each day

CenterPoint Energy Ohio's System Balancing, Cont'd.



- All SCO and Choice Suppliers will be required to enter into a TCO Agency Agreement on a monthly basis giving CenterPoint Energy Ohio the rights to view all of the Suppliers' nominations and storage information on their CenterPoint Energy Ohio released contracts.
 - TCO Agency Agreements will be submitted to TransCanada/Columbia Pipeline Group at navigates@transcanada.com by Suppliers.
 - The expiration date is populated to allow access to the multiple FSS contracts during the entire phase in the event there is a prior period adjustment that would need to be updated in CenterPoint Energy Ohio's system.
- SCO/Choice Suppliers will receive the cash-outs and premiums charged to Large Transporters/Pool Operators on a monthly basis based on their CRP's for providing balancing services.

CenterPoint Energy Ohio's System Balancing Cont'd.



- Suppliers must agree to allow CenterPoint Energy Ohio to shift some TCO storage capacity among the Suppliers at the start of each month due to Customer migrations or intra-month if a large migration occurs. Capacity follows the Customer; storage inventory does not.
 - CenterPoint Energy Ohio reserves the right to adjust PDA's intra-month if a large Choice migrations occur or to resolve any other imbalance issues between SCO and Choice Suppliers.
 - TCO will bill the individual Suppliers that overrun their individual storage limitations.
 - Nominated storage injections, withdrawals and off-system storage withdrawals must be nominated on CenterPoint Energy Ohio's EBB.
- Minimum Storage Levels
 - Suppliers must have at least the minimum storage level designated by CenterPoint Energy Ohio in their storage account at all times.
 - Volumes below the minimum storage level are subject to Storage Non-Compliance Charges.

CenterPoint Energy Ohio System Balancing Cont'd.



- Daily minimum and maximum injection and withdrawal limits will be established for each SCO and Choice Supplier in order to balance the system and adhere to TCO's tariff limits.
- Daily limits can vary depending on HDD. TCO will bill the individual Suppliers that overrun their individual storage limitations.
- Suppliers must have at least the minimum storage level designated by CenterPoint Energy Ohio in their storage account at all times.
- Suppliers must set their PDA's accordingly at the shipper level.

CenterPoint Energy Ohio's TCO Storage Min/Max Injection/Withdrawal Requirements



Historic Maximum MMBTU Miss of Day-Ahead Forecast to Actual

NEDO 7/1/2007 to 05/30/2014 FOR GAS DAYS ON AND AFTER 09/01/2014

	HHDD HDD5	HDD6 HDD10	HDD11 HDD15	HDD16 HDD20	HDD21 HDD25	HDD26 HDD30	HDD31 HDD35	HDD36 HDD40	HDD41 HDD45	HDD51 HDD55	HDD56 HDD60	HDD61 HDD65	HDD66 HDD70	HDD71 HDD75	HDD76 HDD80
January	15,540	20,314	37,526	21,388	34,632	50,247	48,427	54,543	33,574	34,352	44,309	50,801	43,151	26,793	44,000
February	12,998	7,866	22,629	37,851	36,589	38,736	31,955	45,336	38,113	43,550	31,069	19,650	-	-	-
March	15,578	19,116	30,249	42,761	46,586	29,476	32,057	38,485	18,574	29,792	22,710	-	-	-	-
April	33,062	30,550	19,136	39,352	39,966	8,544	26,749	-	-	-	-	-	-	-	-
May	23,468	24,875	27,124	26,267	42,275	-	-	-	-	-	-	-	-	-	-
June	10,846	13,414	-	-	-	-	-	-	-	-	-	-	-	-	-
July	12,353	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	13,460	732	-	-	-	-	-	-	-	-	-	-	-	-	-
September	13,850	12,466	24,095	16,210	-	-	-	-	-	-	-	-	-	-	-
October	15,087	33,879	30,749	37,147	38,006	19,040	-	-	-	-	-	-	-	-	-
November	6,581	39,943	46,722	47,889	40,869	30,795	34,528	14,070	8,780	-	-	-	-	-	-
December	17,659	7,778	37,216	32,269	31,841	42,130	37,511	45,632	24,537	34,676	14,896	-	-	-	-

FOR GAS DAYS ON AND AFTER 09/01/2014

Max Injection Table

Month	TCO Max Inj.	HHDD HDD5	HDD6 HDD10	HDD11 HDD15	HDD16 HDD20	HDD21 HDD25	HDD26 HDD30	HDD31 HDD35	HDD36 HDD40	HDD41 HDD45	HDD46 HDD50	HDD51 HDD55	HDD56 HDD60	HDD61 HDD65	HDD66 HDD70	HDD71 HDD75	HDD76 HDD80
January	30,592	15,043	10,278	(6,354)	9,304	(4,040)	(19,655)	(17,835)	(23,951)	(8,082)	(3,765)	(13,177)	(20,209)	-	-	-	-
February	30,592	17,594	22,726	7,963	(7,259)	(5,907)	(8,144)	(1,363)	(14,744)	(7,521)	(12,958)	(477)	10,942	-	-	-	-
March	30,592	15,014	11,476	343	(12,159)	(15,994)	1,115	(1,455)	(7,893)	12,018	800	7,882	-	-	-	-	-
April	45,888	see below	15,338	26,752	6,525	5,922	37,344	19,139	45,888	-	-	-	-	-	-	-	-
May	61,184	37,716	36,309	34,060	34,917	18,909	-	-	-	-	-	-	-	-	-	-	-
June	61,184	50,338	47,770	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	61,184	48,831	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	61,184	47,724	60,452	-	-	-	-	-	-	-	-	-	-	-	-	-	-
September	39,770	25,920	27,304	15,675	23,560	-	-	-	-	-	-	-	-	-	-	-	-
October	21,414	6,327	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
November	12,747	6,165	(27,196)	(33,975)	(35,142)	(28,122)	(18,048)	(21,781)	(1,323)	3,967	-	-	-	-	-	-	-
December	25,493	7,834	17,715	(11,729)	(6,776)	(6,348)	(16,639)	(12,018)	(29,139)	956	(9,189)	10,597	-	-	-	-	-

April Max Injection Detail

	HDD 0	HDD 1	HDD 2	HDD 3	HDD 4	HDD 5
April	25000	40000	40000	25000	20000	20000

FOR GAS DAYS ON AND AFTER 09/01/2014

Max Withdrawal Table

Month	TCO Max W/D	HHDD HDD5	HDD6 HDD10	HDD11 HDD15	HDD16 HDD20	HDD21 HDD25	HDD26 HDD30	HDD31 HDD35	HDD36 HDD40	HDD41 HDD45	HDD46 HDD50	HDD51 HDD55	HDD56 HDD60	HDD61 HDD65	HDD66 HDD70	HDD71 HDD75	HDD76 HDD80
January	200,000	184,461	179,686	162,474	178,612	165,368	149,753	151,573	145,457	160,326	165,643	155,691	140,199	156,839	173,207	156,000	200,000
Early Feb	200,000	187,002	192,134	177,371	162,149	163,411	161,264	168,045	154,664	161,887	156,450	168,931	180,350	190,000	190,000	200,000	200,000
Late Feb	130,000	117,002	122,134	107,371	92,149	93,411	91,264	98,045	84,664	91,887	86,450	98,931	130,000	130,000	130,000	130,000	-
March	130,000	114,422	110,884	99,751	87,239	83,414	100,524	97,943	91,515	111,426	100,208	107,290	130,000	130,000	130,000	-	-
April	100,000	66,938	69,450	80,864	60,638	60,034	91,366	73,251	-	-	-	-	-	-	-	-	-
May	100,000	76,532	75,125	72,876	73,733	57,725	-	-	-	-	-	-	-	-	-	-	-
June	100,000	89,154	85,386	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	100,000	87,547	100,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	100,000	86,540	99,268	-	-	-	-	-	-	-	-	-	-	-	-	-	-
September	100,000	86,150	87,534	75,905	83,790	-	-	-	-	-	-	-	-	-	-	-	-
October	200,000	184,913	166,121	169,251	162,853	161,094	180,960	-	-	-	-	-	-	-	-	-	-
November	200,000	193,419	160,057	153,278	152,111	159,131	169,206	165,472	185,930	191,220	200,000	200,000	-	-	-	-	-
December	200,000	182,341	192,222	162,784	167,731	168,159	157,870	162,489	154,368	175,463	165,324	185,104	190,000	190,000	190,000	190,000	200,000

FOR GAS DAYS ON AND AFTER 04/01/2012

Min Withdrawal Table

Month	TCO Max W/D	HHDD HDD5	HDD6 HDD10	HDD11 HDD15	HDD16 HDD20	HDD21 HDD25	HDD26 HDD30	HDD31 HDD35	HDD36 HDD40	HDD41 HDD45	HDD46 HDD50	HDD51 HDD55	HDD56 HDD60	HDD61 HDD65	HDD66 HDD70	HDD71 HDD75	HDD76 HDD80
November	200,000	-	-	15,000	20,000	20,000	25,000	20,000	20,000	-	-	-	-	-	-	-	-

Minimum Daily TCO Storage Inventory Requirements



ATTACHMENT 17B			
Centerpoint Energy Ohio MONTHLY TCO STORAGE REQUIREMENTS			
Month	Daily Minimum Required % of SCQ in TCO Storage	Daily Minimum Recommended % of SCQ in TCO Storage	Maximum Required % of SCQ in TCO Storage
April	0.00%	*2.5%	TCO Tariff
May	0.00%	*2.5%	TCO Tariff
June	0.00%	*2.5%	TCO Tariff
July	0.00%	*2.5%	TCO Tariff
August	0.00%	*2.5%	TCO Tariff
September	0.00%	*2.5%	TCO Tariff
October	0.00%	*2.5%	TCO Tariff
November	30%	^30%	TCO Tariff
December	30%	^30%	TCO Tariff
January	30%	^30%	TCO Tariff
February 1 -15	30%	^30%	TCO Tariff
February 16 - 28	0.00%	*2.5%	TCO Tariff
March	0.00%	*2.5%	TCO Tariff

Note: Centerpoint Energy Ohio will require all the released capacity holders of the CEOH TCO FSS storage service to maintain a minimum balance of 30% of the released TCO SCQ capacity in inventory until February 15th of each year. This is needed in order for CEOH to be assured that the first TCO storage ratchet is not reached prior to February 15th each year.

CEOH will not require a minimum balance in inventory from February 16th through the end of October. CEOH RECOMMENDS a minimum of 2.5% at all times to ensure that a three day historic maximum forecast miss will not result in a negative storage balance and excessive penalties.

Recommended TCO Storage Inventory



Columbia Gas Transmission - Recommended Operating Parameters per CenterPoint Energy Ohio				
Storage Contract Quantity		7,648,483		
Date	Max SCQ %	Min SCQ %	Max Dth	Min Dth
December 15th	100%	75%	7,648,483	5,736,362
January 15th	80%	55%	6,118,786	4,206,666
February 15th	55%	30%	4,206,666	2,294,545
March 15th	30%	10%	2,294,545	764,848

The CenterPoint Energy Ohio recommended TCO Storage Inventory levels are those previously used by CenterPoint Energy Ohio prior to its merchant exit.

- CenterPoint Energy Ohio's holding of capacity equals approximately 75% of its total SCO/DSS and Choice load.
- CenterPoint Energy Ohio's pipeline firm transportation capacity will be temporarily released on a monthly basis, with recall rights, to SCO and Choice Suppliers on a pro-rata basis (Capacity Release Percentage –CRP).
- CRP's are available to SCO and Choice Suppliers in GTS when Capacity is released, typically by the 20th of each month.
- The volumes and costs associated with the capacity may be provided upon request.
- Transportation capacity follows the Customer.
- Supplier will not be permitted to change any primary points of receipt or delivery associated with assigned pipeline transportation contracts.
- For specific parcels of capacity identified by CenterPoint Energy Ohio, Supplier may not utilize any delivery point other than those primary and secondary points identified by CenterPoint Energy Ohio unless the capacity is released at the pipeline's full tariff rate or unless an alternate capacity billing arrangement is agreed to by Supplier and CenterPoint Energy Ohio.
- CenterPoint Energy Ohio will continue to retain prospectively a combination of interstate pipeline transportation and storage capacity along with alternate peaking supplies to serve approximately 75% of total system requirements (not including Large Transporter loads) for releasing to SCO and Choice Suppliers.

- Suppliers must execute capacity release documents in the timeframe specified by CenterPoint Energy Ohio.
- CenterPoint Energy Ohio reserves the right to adjust capacity release quantities intra-month if needed.
- CenterPoint Energy Ohio will release capacity to those Suppliers participating as both an SCO Supplier and a Choice Supplier collectively; however, the Supplier will have a Choice Pool and a separate SCO Pool with its own DDQ, nominations, usage, etc. for billing purposes.
- Capacity contract numbers will change monthly by the pipelines as capacity is recalled and re-released.

*Note – A new Choice Supplier must have 100 enrollments or enrollments with 10,000 CCF of annual load collectively submitted before the release date in order to be awarded capacity. Once the capacity is awarded, the new Choice Supplier will be responsible for fulfilling the Minimum Storage amount by the first of the month.

- Suppliers will be notified of the released pipeline contracts, volumes and offer numbers typically by the 20th of each month.
 - Suppliers must accept capacity within 48 hours of the release.
- CenterPoint Energy Ohio's Tri-Party Capacity Agreement must be fully executed if capacity is not to be released directly to the SCO Supplier.

- Suppliers that have an SCO and a Choice pool will receive capacity released jointly for the combined CRP of both pools.
- Capacity follows the customer:
 - Monthly reassignment of capacity to Suppliers based on design peak day market share.
- The TCO storage capacity (FSS & SST) released to Suppliers cannot be re-released.
- The costs of the released storage and related transportation capacity must be paid directly to the pipelines pursuant to pipeline capacity release payment procedures.
- The released capacity is subject to recall at any time if:
 - Supplier does not perform in accordance with the SCO or Choice Supplier Agreements or;
 - Fails to comply with other relevant provisions set forth in CenterPoint Energy Ohio's Tariff
- Storage is recalled and re-released on a monthly basis which changes the contract numbers each month
- Suppliers must transfer their end of the month storage balance to their new contract the beginning of each month

CenterPoint Energy Ohio's Capacity Portfolio effective April 1, 2016



Centerpoint Energy Ohio

(Volumes in Dth)

Pipeline	Svc Type	Contract Number	Primary Receipt	Primary Delivery	Apr '16	May '16	Jun '16	Jul '16	Aug '16	Sep '16	Oct '16	Nov '16	Dec '16	Jan '16	Feb '16	Mar '16
					30 MDQ	31 MDQ	30 MDQ	31 MDQ	31 MDQ	30 MDQ	31 MDQ	30 MDQ	31 MDQ	31 MDQ	28 MDQ	31 MDQ
TCO	SST	99539	33/Stow	Stoi33	100,000	100,000	100,000	100,000	100,000	100,000	200,000	200,000	200,000	200,000	200,000	200,000
ANR	NNS	126278	742252	1400988	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
ANR	NNS	126279	742252	1400988	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
Panhandle	EFT	20349		02603/New Paris	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
TETCO	LLFT	870172	74902	73970	31,225	10,500	10,500	10,500	10,500	10,500	10,500	10,500	31,225	31,225	31,225	31,225
TETCO	LLFT	870173	74902	73970	-	-	-	-	-	-	-	23,580	23,580	23,580	23,580	23,580
TETCO	FT-1	910555	79951	73105	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200
Total City Gate Deliverability					196,425	175,700	175,700	175,700	175,700	175,700	275,700	299,280	320,005	320,005	320,005	320,005

Pipeline	Svc Type	Contract Number	Primary Receipt	Primary Delivery	SCQ	Apr '16	May '16	Jun '16	Jul '16	Aug '16	Sep '16	Oct '16	Nov '16	Dec '16	Jan '16	Feb '16	Mar '16
						MDQ	MDQ	MDQ	MDQ	MDQ	MDQ	MDQ	MDQ	MDQ	MDQ	MDQ	MDQ
TCO	FSS(SCQ)		Stoi	Stow	7,648,483												
	FSS	99600	33/Stow	Stoi33		200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000

CenterPoint Energy Ohio has made some changes to its portfolio, and delivery requirements effective April 1, 2016. They are:

- CenterPoint Energy Ohio has entered into Rate Schedule ETS capacity contracts with ANR Pipeline for the replacement of its Panhandle capacity.
 - Both contracts are for a ten year term starting April 1, 2016 with a primary delivery point of CenterPoint Energy Ohio GRP-1:
 - Contract #126278 has an MDQ of 30,000 dths per day with a primary receipt point of REX Shelbyville
 - Contract # 126279 has an MDQ of 30,000 dths per day with a primary receipt point of REX Shelbyville
- CenterPoint Energy Ohio has retained 1,000 dths per day EFT Panhandle capacity for delivery to New Paris
- CenterPoint Energy Ohio will no longer hold storage capacity on Panhandle

Allocation of CenterPoint Energy Ohio Purchased Peaking Supplies



- Each Choice/SCO Supplier agrees to retain sufficient firm interstate pipeline transportation and storage capacity with primary delivery points to the CenterPoint Energy Ohio city-gates and/or city-gate firm gas supply arrangements to meet 100% of their monthly design peak day demand.
 - CenterPoint Energy Ohio provides approximately 75% of the capacity peak day needs
- CenterPoint Energy Ohio will allow a physical call for 10 peaking days at the CenterPoint Energy Ohio city-gate to cover an SCO and/or Choice Supplier's firm capacity obligation.
- Plans and proof of comparable firm capacity should be submitted directly to TJ Noland at jerry.noland@CenterPointenergy.com no later than October 31st of each year.
 - Actual proof of capacity may be submitted during the month of October or on a monthly basis. If submitted on a monthly basis, the proof must be submitted by the 25th of the preceding winter month for the months of December, January and February.
- CenterPoint Energy Ohio may verify the Suppliers' compliance with this requirement at any time.

- Differences between the actual deliveries through the Delivery Point meters and the nominations to those meters will be managed by CenterPoint Energy Ohio as shown below.
 - Texas Gas – Lebanon Point
 - No OBA in place.
 - Imbalance volumes are allocated pro-rata to shippers on a daily basis.
 - Texas Eastern – Derby, Red Lion and Gano Road Points
 - OBA in place.
 - Imbalances are managed to minimal levels through TETCO Gas Control adjusting flow.
 - Month-end imbalance carries month to month.
 - Imbalance is not cashed out.

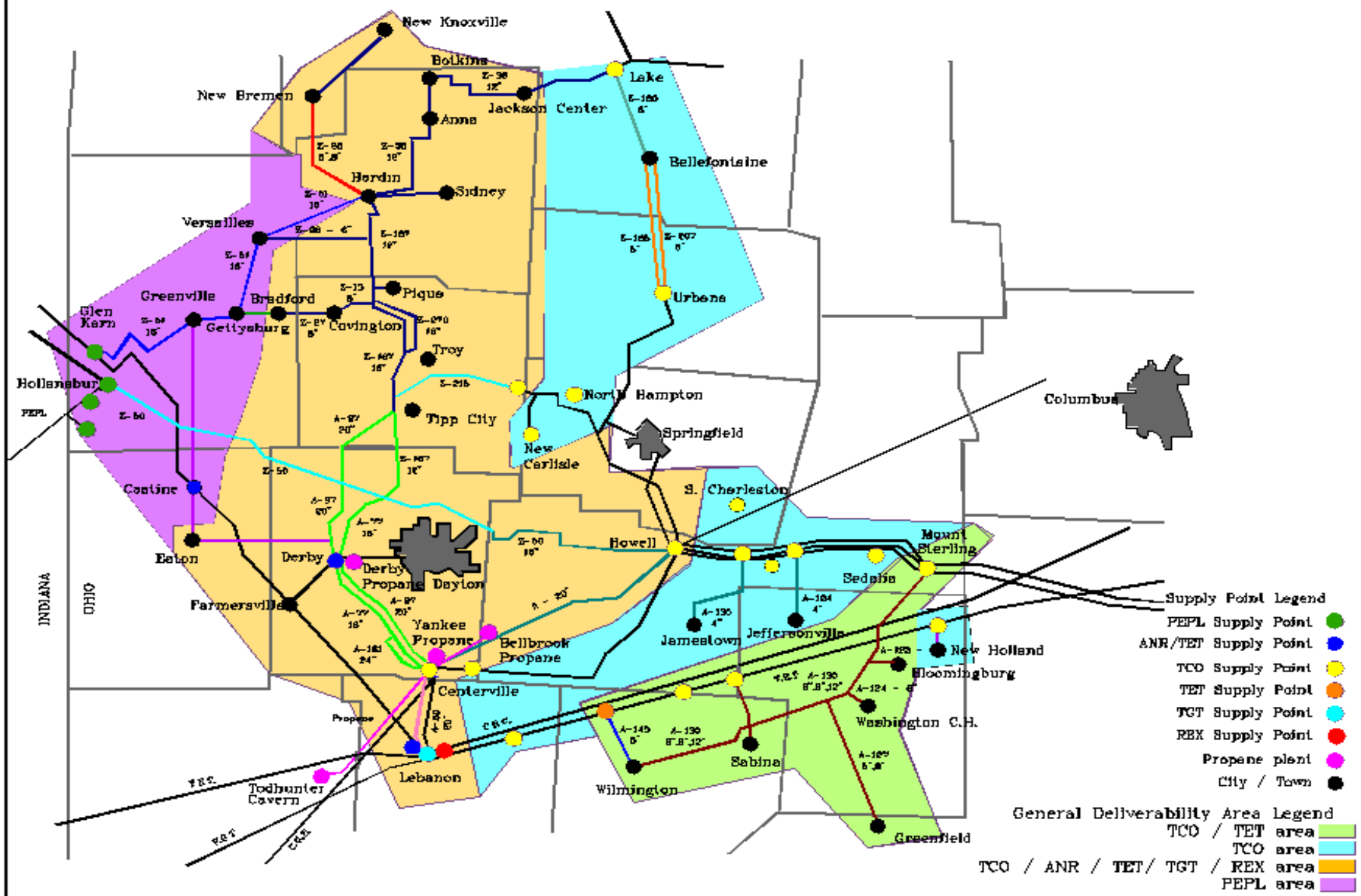
Pipeline Delivery Point Imbalances, Cont'd.



- ANR – Derby, Red Lion, & effective April 1, 2016 CenterPoint Energy Ohio GRP-1 140098
 - OBA in place.
 - Imbalances are managed to minimal levels through ANR Gas Control adjusting flow.
 - Month-end imbalance carries month to month.
 - Imbalance is not cashed out.
- Panhandle – Rural Point
 - OBA in place.
- Rockies Express – Clear Creek
 - POA in place.
 - Imbalances are managed to minimal levels through REX Gas Control adjusting flow.
 - Imbalance < 20,000 Dths carries month to month.
 - Imbalance > 20,000 Dths is cashed out.

- Each SCO Supplier agrees to retain sufficient firm interstate pipeline transportation and storage capacity with primary delivery points to the CenterPoint Energy Ohio city-gates and/or city-gate firm gas supply arrangements to meet 100% of the monthly design peak day demands for its tranches.
 - CenterPoint Energy Ohio provides approximately 75% of the capacity peak day needs.
- CenterPoint Energy Ohio may verify the Suppliers' compliance with this requirement at any time.
- CenterPoint Energy Ohio will allow a physical call for 10 peaking days at the CenterPoint Energy Ohio city-gate to cover an SCO and/or Choice Supplier's firm capacity obligation.
- Choice and SCO Suppliers must provide capacity supply plans in October to demonstrate their supply plans for the upcoming season.
- Actual proof of capacity may be submitted at that time or on a monthly basis. If submitted on a monthly basis, the proof must be submitted by the 25th of the preceding winter month for the months of December, January and February.
- Plans and proof of comparable firm capacity should be submitted directly to TJ Noland at jerry.noland@CenterPointenergy.com

VEDO SYSTEM



Note: Does not include the ANR Mikesell or GRP -1 interconnects

City-gate Delivery Requirements



- The allowable minimum and maximum delivery percentages are recalculated and communicated to Suppliers periodically.
 - Typically a four month minimum notification will be provided on changes to the city-gate allocation tables.
- Required minimum/maximum delivery requirements vary by Heating Degree Day.
- Deliveries to a grouped city-gate delivery point in CenterPoint Energy Ohio's city-gate allocation table allow delivery by various pipelines.
- A City-Gate Allocation Non-Compliance Charge will be assessed on the quantity difference if the SCO Supplier's confirmed daily pipeline nomination is less than the minimum or greater than the maximum city-gate allocation requirements.
- Due to the changes to CenterPoint Energy Ohio's portfolio, city-gate delivery requirements have also changed:
 - No deliveries will be accepted at Panhandle Glen Karn or Hollansburg as of April 1, 2016.
 - Panhandle Rural deliveries are still required
 - Deliveries will be required at ANR CenterPoint Energy Ohio GRP-1 1400988 April 1, 2016.
- CenterPoint Energy Ohio's city-gate allocation delivery requirement table can be found on Vectren.com.

City-Gate Information



Centerpoint Energy Ohio's Non LGT Pipeline & City-Gates			
Pipeline	Pipeline Meter Point	Pipeline City-Gate Name	CEOH City-Gate Delivery Groupings
ANR	295956	Lebanon/Derby	Derby Hub
TETCO	73970	Farmersville-Derby Delivery	Derby Hub
TETCO	73105	Clinton, OH (Gano Rd)	Gano Rd
PEPI	2603	New Paris	New Paris
ANR	108796	Lebanon/Red Lion	Lebanon Hub
TETCO	72909	Red Lion, OH(Lebanon-Lateral)-72909	Lebanon Hub
TGT	Zone 4-1720	Lebanon-Dayton-Zone 4	Lebanon Hub
Rex	44472	Clear Creek (Lebanon Lateral)	Lebanon Hub
ANR	VEDO GRP-1	Loc ID: 1400988	VEDO GRP-1
Columbia	33-3	Dayton-3	33-3
Columbia	33-6	Dayton-6	33-6
ANR	Mikesell	Loc ID: 1401911	Mikesell

CenterPoint Energy Ohio may issue an OFO, in its reasonable discretion upon determination that an action is required in order to:

- Alleviate conditions which threaten the integrity or reliability of Company's gas system
- To maintain the system in balance
- To maintain adequate storage levels
- To assure deliveries of gas supplies by Suppliers to the customers
- Protect the reliability of Company's gas system
- Assure deliveries of gas supplies by Suppliers to the customers
- Adhere to the various interstate pipeline companies' balancing requirements, as stated in their FERC approved gas tariffs under which Company is served
- Direct Suppliers to different city-gates or institute different city-gate delivery allocations due to system maintenance or system constraints
- Any other condition warranting a change to delivery requirements

Operational Flow Orders (OFO's), Cont'd.



- An OFO may be issued to all Suppliers delivering gas to CenterPoint Energy Ohio's city-gates, individual transport programs, or an individual Supplier when necessary in Company's sole judgment.
- Violations of OFO requirements will be subject to a \$35.00 charge per Dth for any volumes over or under the specified restriction.
- An e-mail notification of OFO's or critical periods will be posted to GTS and received by all registered Suppliers.

Operational Flow Orders Guidelines

CenterPoint Energy Ohio will issue an OFO in the following situations:

- Columbia Pipeline Group (i.e. TCO) issues a Transport Critical Day or OFO, and the TCO Storage inventory levels are above 30%.

- TCO issues a Storage Critical Day or OFO regardless of the collective storage inventory level.
 - Off-system withdrawals are forbidden by CenterPoint Energy Ohio when TCO issues a Storage Critical Day, and any other time as deemed necessary by CenterPoint Energy Ohio.

- Certain circumstances may result in exceptions to CenterPoint Energy Ohio's practice of issuing OFO's. Such exceptions will be communicated to internal stakeholders as part of the normal OFO process.

- Off-System storage withdrawals are not allowed during a Cold OFO

CHOICE SUPPLIER RECONCILIATION BILLING

Supplier Charges

- Choice Supplier Monthly Statements (bills) will be rendered each month by the 25th day of the month, for the prior month's activity.
- CenterPoint Energy Ohio will pay the Choice Suppliers for the dollars billed to their Choice customers for the revenue month.
- Payment to Supplier from CenterPoint Energy Ohio typically is made within three days of issuance of the monthly invoice statement via wire.
- Payment from Supplier to CenterPoint Energy Ohio is due within five days of receipt of the electronic monthly invoice statement.

Receivables

- CenterPoint Energy Ohio will purchase 100% of the Choice Supplier receivables without discount so long as CenterPoint Energy Ohio has continuing authority pursuant to Commission Entry to seek recovery for unpaid customer receivables.
- Customer Billed Supply Charges and Customer Billed Supply Tax Charges (i.e. Receivables) are credited to the Supplier's bill monthly.
 - The dollars reflect the dollars billed to customers the previous revenue month.
 - CenterPoint Energy Ohio bills on a 21 cycle basis. Receivables for April will be paid in May.

Bill Detail Report

- Sent via e-mail and reflects the charges billed to their customers for the preceding revenue month (i.e. breakdown of receivables by customer).
 - Suppliers will need Excel 2007 in order to receive this file. The file will consist of the following information:
 - Customer's account number
 - Rate (Supplier's rate code)
 - Charge
 - Tax Rate
 - County Code
 - Tax Charge
 - Ccf Amount
- Please note that the usage associated to the receivables is based on a revenue month, and the usage used in the monthly reconciliation of deliveries is calendarized usage.

Choice Supplier Monthly Charges include the following:

- Choice Eligible Customer Account List Fee
 - Annual Option - \$.08 charge for each account included on the initial list, with updated lists provided the three subsequent quarters at no additional cost.
 - Quarterly Option - \$.05 charge for each account included on the list. Such lists shall be available quarterly.
 - Nomination Error Charge - A \$0.50 per Dth charge based upon the quantity difference between the Choice Supplier's daily pipeline nomination and the pipeline daily confirmed volume delivered to CenterPoint Energy Ohio, for each day of difference.
 - This fee is not charged if the difference is due to pipeline allocations or cut volumes.
- DDQ Non-Compliance Charge - A \$15.00 charge per Dth fee for the daily difference between the Supplier's DDQ and the aggregate deliveries which includes scheduled storage withdrawals.
 - This fee is not charged if the difference is due to pipeline allocations.
- City-Gate Allocation Non-Compliance Charge - A \$5.00 charge per Dth for any daily city-gate scheduled nomination less than the minimum or greater than the maximum city-gate allocation requirement stated on the DDQ.
 - This fee will not be charged if CenterPoint Energy Ohio cuts scheduled deliveries greater than the maximum allowed at the city-gate.
- OFO Non-Compliance Charge - A \$35.00 per Dth charge for any volumes over or under the specified restriction.

- Non-Compliance charges will apply as normal to volumes outside of the daily delivery, city-gate, and storage requirements that are not affected by the Operational Flow Order.

- Storage Non-Compliance Charge –
 - A \$35.00 per Dth charge for each occurrence during the term of the contract.
 - Supplier is considered in default upon the fifth occurrence.
 - Charges apply to any volumes greater than the CenterPoint Energy Ohio-established maximums or less than the CenterPoint Energy Ohio-established minimums for the daily injection and/or withdrawal requirements.
 - Charges will apply daily for any volumes less than the daily minimum storage inventory requirements.

- In the event that TCO allows daily over-injection or over-withdrawal rights, Company shall not impose the Storage Non-Compliance Charge on any volumes injected or withdrawn less than the minimum or greater than the maximum daily injection limits set by Company. However, over-injection and over-withdrawal rights do not preclude the TCO Storage Holders from maintaining their daily storage levels within the minimum limitations set by the Company.

- Related Charges - Supplier shall reimburse CenterPoint Energy Ohio for all charges CenterPoint Energy Ohio incurs in connection with interstate pipeline transportation of Choice Supplier-Delivered Gas including any gas costs, penalty charges, or cash-outs.
- System Balancing Charge - Because the Suppliers' TCO storage accounts are used to balance the system including the Large Transporters, the imbalance gas costs and premiums payable by/to the Transporters will be allocated among the Suppliers based on their portion of TCO storage (monthly CRP) in addition to other non-compliance charges.
- Monthly Reconciliation Charge - The price utilized will be the IFERC Gas Market Report First-of-the-month price for Columbia Gas Transmission Corp, Appalachia with retention and firm commodity rate included.
- Alternate Peaking Supplies Charge - The cost of alternate supplies provided by Company for SCO/Choice Supplier as set out in the Allocation of Alternate Supplies section of the SCO Supplier Service Terms and Conditions.
- The actual costs of the alternate supply provided by Company hereunder shall be allocated to Choice and SCO Suppliers.
- POLR Charge – Any charges associated with providing provider of last resort services due to the default of Supplier.

- SCO and Choice Suppliers' deliveries will be reconciled to their supply requirements and cashed-out on a monthly basis.
- On a monthly basis, Company will compare each Supplier's Deliveries to the Supplier's Pool and Allocated Requirements to determine the Supplier's Monthly Reconciliation Volumes.
 - The Supplier's Deliveries will be the sum of the Supplier's confirmed deliveries to the city-gate, its no-notice storage activity, and its allocated share of alternate peaking supply.
 - The Supplier's Pool Requirements will be determined by adjusting the Supplier's Pool's actual billed usage for annual Standard Btu Value and the UAFG % identified in CenterPoint Energy Ohio's Tariff.
- The Supplier's Allocated Requirements will include the Supplier's portion of Large Transporter Imbalance volumes (sum of their deliveries minus CenterPoint Energy Ohio tariff unaccounted for gas percentage minus usage converted to Dth using CenterPoint Energy Ohio's monthly average BTU), CenterPoint Energy Ohio Line Pack changes, and CenterPoint Energy Ohio Operational Balancing Agreement (OBA) volume changes.
- The reconciliation cash-out price for each month will be the IFERC Gas Market Report First-of-the-month price for Columbia Gas Transmission Corp, Appalachia plus applicable variable costs including fuel retention and pipeline variable charges.

- The sum of the monthly reconciliation cash-out amounts, plus any applicable taxes, will be the monthly cash-out credit or charge.
 - The monthly cash-out charge or credit will be recovered/passed back in the Exit Transition Cost (ETC) Rider charged to the customers.
- Such reconciliations will be performed the second month following the end of the last month of flow in each SCO Phase in order to have sufficient time to obtain all billed usage for the applicable period and prior usage adjustments.
- Monthly Volume Reconciliation statements remain subject to revision based on any corrections to underlying data and any issues identified in the annual ETC Audits.

Reconciliation Calculation Example



1	Confirmed Deliveries
2	Allocated Peaking Supply
3	Auto Balancing Activity
4	Total Supplied (lines 1+2+3)
5	Pool Usage (MCF)
6	Standard BTU
7	Pool Usage (Dth) (lines 5*6)
8	Pool Requirements (line 7/-UAFG%)
9	Allocated LGT Imbalance (Deliveries minus shrink minus usage)
10	Allocated Pipeline OBA Change
11	Allocated Line Pack Change
12	Total Requirements (lines 8-9-10-11)
13	Reconciliation Volumes (line 4-12)
14	Reconciliation Price (first of the month Columbia Appalachia plus TCO fuel and Commodity)
15	Reconciliation Amount (lines 13*-14)

Pool usage shall be the Pool's billed usage using the monthly Energy Conversion Factor.

Reconciliation Timeline Example



- Supplier bill issued in May
 - Non-Compliance charges for Supplier's April deliveries
 - Billed receivables – April usage billed in April

- Supplier bill issued in June
 - Non-Compliance Charges for Supplier's May deliveries
 - Billed receivables – April and May usage billed in May
 - Reconciliation volumes for April
 - Allocation of credits/charges for non-compliance charges from all SCO/Choice Suppliers, and cash-outs and premiums from Large Transporters for April activity.

Reconciliation Timeline Example, Cont'd.



Annual Phase - April 1 thru March 31			
Month customer receivables billed	Gas Flow	Bill Month (by the 25th)	Reconciliation Month
January	January	February	December reconciliation Allocation of cash-outs, premiums, and non-compliance penalties charged in December
February	February	March	January reconciliation Allocation of cash-outs, premiums, and non-compliance penalties charged in January
March	March	April	February reconciliation Allocation of cash-outs, premiums, and non-compliance penalties charged in February
Remaining March bills that bill in April		May	March reconciliation Allocation of cash-outs, premiums, and non-compliance penalties charged in March
Start of Annual Phase			
April	April	May	

Note: Allocation of cash-outs, premiums, and non-compliance penalties includes those billed to SCO Suppliers, Choice Suppliers and Large Transporters

Provider of Last Resort (POLR)



- In the SCO Phase, the POLR responsibility will include temporarily providing supply to cover SCO tranche loads in the event of an SCO Supplier default. The SCO Supplier Agreement and relevant tariff sheets will hold the defaulting SCO Supplier financially responsible.
- Defaulting Suppliers will be required to reimburse for any incremental POLR costs incurred.
- CenterPoint Energy Ohio, SCO Suppliers, Choice Suppliers, and Large Transporters/ Pool Operators would all be involved.
- CenterPoint Energy Ohio will act as POLR Coordinator, identifying the need for POLR supply and notifying the non-defaulting SCO and Choice Suppliers.

In the event of Supplier default, CenterPoint Energy Ohio will take the following short-term action with regard to obtaining POLR supply:

- SCO/Choice Suppliers collectively will provide supply to meet POLR needs, using their individual TCO storage inventories. The withdrawn storage inventory will be subsequently replaced with the cost assessed to the defaulting Supplier.
- If CenterPoint Energy Ohio determines that the daily quantity of gas needed due to Supplier default(s) may affect the reliability of the system, an OFO will be issued, to ensure that Large Transporters/Pool Operators are delivering enough supply for their Transport Customer load during the POLR period.
- Next, as soon as possible, all transportation and storage capacity released to the defaulting Supplier will be recalled by CenterPoint Energy Ohio who will use it to meet some portion of the immediate needs of the defaulting Supplier's customers. CenterPoint Energy Ohio will claim the defaulting Supplier's storage inventory, as needed, to meet the defaulting Supplier's customer loads.
- CenterPoint Energy Ohio will fill any remaining shortfall through acquiring additional temporary capacity and supply or city-gate delivered gas.
- CenterPoint Energy Ohio will coordinate the provision of POLR service for the remainder of the billing month in which the default occurs, and the subsequent month, or until an alternate solution is effectuated.

- In the event of Supplier removal, CenterPoint Energy Ohio will take the following action with regard to an alternate solution:
 - If a Choice Supplier defaults, per the Choice Tariff, CenterPoint Energy Ohio will offer non-defaulting Choice Suppliers the option of assuming the customers of the defaulting Supplier. If there are no takers, the customers will revert to SCO service.
 - If an SCO Supplier defaults or Choice Suppliers do not assume the customers of a removed Choice Supplier:
 - a) The remaining SCO Suppliers loads will be increased to cover the defaulted load on a pro rata basis. Such incremental load will be limited to 50% of initial Tranches awarded.
 - b) For the portion of increased load quantity greater than 50% of initial Load Tranches awarded to remaining SCO Suppliers, Company shall solicit non-defaulting SCO Suppliers to serve the defaulted load through the end of the current SCO Phase at the SCO price established in the auction governing the current SCO Phase.
 - c) If assignment to SCO Suppliers under part (a) and voluntary solicitation under part (b) does not accommodate assignments of the entire load of the removed SCO Supplier, Company shall solicit non-defaulting Choice Suppliers to serve the defaulted load through the end of the current SCO Phase unless Customer enters into a contract with a Choice Supplier.
 - d) If after taking the above actions unserved SCO load remains, the remaining unserved load will be assigned to a new SCO Supplier based on an accelerated auction process.
 - e) The removed SCO Supplier will be responsible for all costs associated with (a) through (d) as described herein.

Directed Delivery Quantity (DDQ)



- DDQ's will typically be posted no later than 9:00 a.m. Central Clock Time (CCT) for the gas day beginning 9:00 a.m. CCT the following day.
- The DDQ's will be the sum of:
 - The Expected Demand of the Suppliers' tranches or customer load for that gas day, plus;
 - System UAFG quantities based on CenterPoint Energy Ohio's UAFG Percentage, plus;
 - Any necessary adjustments for interstate pipeline and/or CenterPoint Energy Ohio operating constraints.
- CenterPoint Energy Ohio will post the Suppliers' Expected Demands for the subsequent four days as well as the Heating Degree Days (HDD's) used to calculate the Expected Demands.
 - Expected Demands are subject to change, and may or may not result as the actual DDQ for that date
- At the time of posting the DDQ, CenterPoint Energy Ohio will indicate:
 - The minimum and maximum (or exact) Dth quantity required to be delivered by Supplier to each CenterPoint Energy Ohio city gate to achieve the DDQ
 - The minimum and maximum TCO storage injection and withdrawal quantities

- View the total Directed Delivery Quantity (DDQ) and the DDQ by City Gate.
- –Enter *Gas Day*
- –Enter *Pool*
- –Click *Retrieve*
- •Choice/SCO Suppliers will deliver according to their pipeline/city gate minimum and maximum volumes and total volume specified on their pool's DDQ.
- •Ohio DDQ's will display the pool's Capacity Release Percentage (CRP) and the Average BTU factor.
- •Click on the Forecast Tab to view the “Five Day Forecast” and the “Daily Storage Tolerances” (Ohio Only).
- –Min/Max Storage Withdrawals and Storage Injections volumes
- All Choice/SCO Suppliers must nominate TRANSPORTATION nominations to the pipeline/city-gate combinations within their min and max delivery requirement totaling to their DDQ:

Daily DDQ Requirements - Vectren Energy Delivery of Ohio

Gas Day: 05/01/2018 Pool: CONVERGENCE POWER MARKETING/CHWEDO Retrieve

Print Help

Average BTU Factor: 1.071 Capacity Release % (CRP): 114334

Customer Assumptions

Customer Type	Customer Count	Timestamp
Choice Small Gas Transportation Accounts	35,736	4/30/2018 12:02 PM
Choice General Gas Transportation Accounts - Small	3,118	4/30/2018 12:02 PM
Choice General Gas Transportation Accounts - Large	164	4/30/2018 12:02 PM
TOTALS	39,018	

Gas Day Detail Forecasts

DDQ

Requirement	DDQ	Timestamp
DDQ (dth)	2,284	4/30/2018 12:02 PM
Utility Peaking Supply	0	4/30/2018 12:02 PM
O&A and Other Adjustments to Supply	0	4/30/2018 12:02 PM
Forecast Demand Calibrated to Meet System Required Supply	2,284	4/30/2018 12:02 PM

DDQ By City Gate

Citygate	Min	Max	Timestamp
Clinton, OH (Gano Rd)	143	143	4/30/2018 12:02 PM
Derby	0	1,142	4/30/2018 12:02 PM
Lebanon/Ried Lion (Lebanon Lateral)	0	1,142	4/30/2018 12:02 PM
Market Area 33-3	1	1	4/30/2018 12:02 PM
Market Area 33-6	457	1,465	4/30/2018 12:02 PM
Pinnacle Rd	0	2,000	4/30/2018 12:02 PM
flural	114	114	4/30/2018 12:02 PM
VEDO Grp-1	822	1,348	4/30/2018 12:02 PM

Daily Storage Tolerances

Gas Day	Min W/D	Max W/D	Min Inj	Max Inj	Timestamp
05/01/2018	0	4,749	0	4,313	5/31/2018 12:19 PM

Gas Day Detail Forecasts

Five Day Forecast

Gas Day	DDQ (dth)	HDD	Type	Timestamp
04/30/2018		8	Actual	4/30/2018 12:02 PM
05/01/2018	2,284	0	Estimated	4/30/2018 12:02 PM
05/02/2018	1,874	0	Estimated	5/8/2018 12:02 PM
05/03/2018	1,886	0	Estimated	5/8/2018 12:02 PM
05/04/2018	2,116	3	Estimated	5/8/2018 12:02 PM
05/05/2018	2,652	6	Estimated	5/8/2018 12:02 PM

Daily Storage Tolerances

Gas Day	Min W/D	Max W/D	Min Inj	Max Inj	Timestamp
05/01/2018	0	4,749	0	4,313	5/31/2018 12:19 PM
05/02/2018	0	4,749	0	4,313	5/31/2018 12:19 PM
05/03/2018	0	4,749	0	4,313	5/31/2018 12:19 PM
05/04/2018	0	4,749	0	4,313	5/31/2018 12:19 PM
05/05/2018	0	4,749	0	4,313	5/31/2018 12:19 PM

Heating degree days (hdd)



- Forecasted and Actual HDD and DDQ information by Gas Day.
- –View *Forecast, Actual, or Both*
- •Go to *Forecasting & Actuals>Daily DDQ Forecast & Actual*
- –Enter *Gas Month*
- –Enter *Pool*
- –Click *Retrieve*
- •HDD information can also be found on the Forecast & Actual Weather page.
- •Go to *Forecasting & Actuals >Forecast & Actual Weather*
- –Enter *Gas Month*
- –Click *Retrieve*

Daily DDQ Forecast & Actual - Vectren Energy Delivery of Ohio

Gas Month: 03/2018 Weather Station: All Operating System: All Pool: CONVERGENCE POWER MARKETING\CH\VEDO

Print Export Help

Forecast Actual Both

All Volumes in Dth at the Citygate Refresh

Gas Day	Day of Week	Number of Service Point IDs	Forecast		Actual	
			HDDs	DDQ	HDDs	DDQ
VEDO - VEDO - CONVERGENCE POWER MARKETING\CH\VEDO						
03/31/2018	Saturday	40118	22	12,638.00	23	
03/31/2018	Saturday	40118	22	12,638.00	23	
03/30/2018	Friday	40118	25	13,957.00	25	
03/30/2018	Friday	40118	25	13,957.00	25	
03/29/2018	Thursday	40118	18	10,854.00	18	
03/29/2018	Thursday	40118	18	10,854.00	18	
03/28/2018	Wednesday	40118	11	6,417.00	13	
03/28/2018	Wednesday	40118	11	6,417.00	13	
03/27/2018	Tuesday	40118	12	8,606.00	13	
03/26/2018	Monday	40118	24	15,392.00	21	
03/25/2018	Sunday	40118	31	19,326.00	31	

Forecast & Actual Weather - Vectren Energy Delivery of Ohio

Gas Month: 03/2018 Operating System: All Weather Type: All Retrieve

Print Export Help

Refresh

Gas Day	Day of Week	Forecast HDD	Forecast HDD Date	Actual HDD	Actual HDD Date
VEDO - VEDO					
3/31/2018	Saturday	22	3/31/2018 12:00 AM	23	3/31/2018 12:00 AM
3/30/2018	Friday	25	3/30/2018 12:00 AM	25	3/30/2018 12:00 AM
3/29/2018	Thursday	18	3/29/2018 12:00 AM	18	3/29/2018 12:00 AM
3/28/2018	Wednesday	11	3/28/2018 12:00 AM	13	3/28/2018 12:00 AM

Nomination Status and Timelines



Nomination Cycles Effective April 1, 2016		
	Time Shifts -- All times CCT	Nomination Deadline
Timely	Timely (Day-Ahead) Nomination Deadline	1:00 PM
Timely 2	Evening (Day-Ahead) Nomination Deadline	6:00 PM
Intraday 1	ID1 (Current Day) Nomination Deadline	10:00 AM
Intraday 2	ID2 (Current Day) Nomination Deadline	2:30 PM
Intraday 3	ID3 (Current Day) Nomination Deadline	7:00 PM
TCO No-Notice	No-Notice (Previous Day) Nomination Deadline	12:00 PM CST

- All noms EXCEPT Storage Withdrawal and Storage Injection, can be edited until the end of the Intraday3 status.
- Storage Injection and Storage Withdrawals can be entered/edited until the end of the TCO No-Notice status.

- Nominations must be submitted daily by 1:00 p.m. CST, one day prior to gas flow via GTS.
 - Large General Transportation nominations are due on Friday for Saturday, Sunday and Monday's flows, and on the last business day prior to Company observed holidays.
 - Company may accept nominations submitted after the deadlines within its reasonable discretion.
 - All Suppliers should be utilizing the variance reports on GTS to ensure all deliveries are within Company's city-gate requirements.
 - Gas Transportation Operations will typically notify Suppliers of variances as a courtesy; however, notification is not guaranteed and all city-gate non-compliant deliveries are subject to penalty.
 - Company will not waive city-gate non-compliance charges due to the lack of due diligence by the Supplier in identifying and addressing nomination and city-gate variances.
 - Gas Transportation Operations will typically notify Suppliers of scheduling errors as a courtesy; however, notification is not guaranteed. It is the Supplier's responsibility to ensure the correct volumes are scheduled correctly, and in a timely manner. This includes any third-party deliveries to your pool(s).

- Company's confirmation process:
 - By 3:30 p.m. CT – Suppliers may view their confirmed timely nominations via GTS delivery reports.
 - Scheduled volumes will be updated to match the pipe if a discrepancy between GTS and the pipe occurs.
 - Once all nominations are confirmed, GTS will send automated emails to advise of any known discrepancies at that time.
 - To correct nominations submitted on GTS, Supplier must edit the nominated volume to match what is on the pipe, if correct, or advise GT Operations that the nominated volume is correct.
 - A nomination error charge of \$0.50 per Dth will be assessed on the delivery difference between the nomination made to Company and the pipeline nomination.

Intraday Nominations / Retro Nominations



- Intraday changes are acceptable for rescheduling due to pipeline cuts. Intraday nomination changes on the day of flow are subject to Company's approval, and for just cause. Suppliers are advised to keep intraday changes to a minimum.
- Retro Nominations are subject to Company's approval. Suppliers must submit a Retro Nomination in GTS and are required to enter an adequate note explaining why the Retro Request is being made. Lack of sufficient details will result in denial of the Retro Request.

- TRANSPORTATION
 - Requires selection of a pipeline
 - Requires selection of a city-gate
 - Nomination status will default based on the time submitted
 - Contract number is required

- STORAGE INJECTION AND STORAGE WITHDRAWAL
 - Requires selection of Columbia pipeline.
 - Requires selection of city-gate
 - Columbia restricted to Market Area 33-6
 - Contract Number is required.
 - No-Notice Nominations can only be made for Columbia Storage Injections and Withdrawals.
 - No-Notice nominations may be made to Supplier's scheduled storage withdrawal nominations by CenterPoint Energy Ohio via TCO's EBB by noon for the prior day's flow if such SCO/Choice Supplier has not delivered adequate supplies to meet its DDQ or has not met its TCO minimum city-gate allocation delivery volume. These no-notice nominations are necessary to lessen the impact to other SCO and Choice Suppliers' system imbalance allocations.

- OFF-SYSTEM STORAGE WITHDRAWAL
 - Does not require a city-gate or contract number.
 - No-Notice nominations cannot be made on Off-System Storage Withdrawals.
 - All off-system storage withdrawals must be nominated to CenterPoint Energy Ohio via the Marketer Extranet.
 - Must be entered into GTS
 - Lack of entry will result in a Nomination Error Charge on the off-system withdrawal volume
 - Off-System storage withdrawal volumes entered in GTS should be the TCO storage volume minus TCO's withdrawal loss.

Columbia imbalance Report



- The Columbia Imbalance Report details out on a daily basis what the no-notice storage activity is

Columbia Imbalance Report - Vectren Energy Delivery of Ohio

Gas Month: 08/2018

Gas Day	33-3 Nominations			33-6 Nominations				Total Nominations	33-3 Measurement	33-6 Measurement	Total Measurement	Auto Bal W/D	Auto Bal Inj	Total Auto Bal.
	Choice	SCO	Total 33-3	Choice	SCO	LGT	Total 33-6							
08/01/2018	17	5	22	2,938	3,726	24,101	30,765	30,787	302	28,564	28,866	0	1,921	(1,921)
08/02/2018	17	5	22	2,973	3,901	31,640	38,514	38,536	287	36,710	36,997	0	1,539	(1,539)
08/03/2018	17	5	22	3,361	4,506	31,252	39,119	39,141	212	35,922	36,134	0	3,007	(3,007)
08/04/2018	17	5	22	3,089	4,723	33,336	41,148	41,170	199	36,185	36,384	0	4,786	(4,786)
08/05/2018	17	5	22	1,983	3,023	34,049	39,055	39,077	232	41,130	41,362	2,285	0	2,285
08/06/2018	17	5	22	1,346	1,662	35,390	38,398	38,420	277	41,010	41,287	2,867	0	2,867
08/07/2018	17	5	22	2,702	3,457	39,032	45,191	45,213	267	43,168	43,435	0	1,778	(1,778)
08/08/2018	17	5	22	2,711	3,518	39,054	45,283	45,305	263	41,670	41,933	0	3,372	(3,372)
08/09/2018	17	5	22	2,973	3,872	38,052	44,897	44,919	248	45,299	45,547	628	0	628
08/10/2018	17	5	22	2,016	2,511	30,191	34,718	34,740	190	34,163	34,353	0	387	(387)
08/11/2018	17	5	22	2,322	3,529	28,376	34,227	34,249	185	30,163	30,348	0	3,901	(3,901)
08/12/2018	17	5	22	2,571	4,045	29,112	35,728	35,750	219	35,335	35,554	0	196	(196)
08/13/2018	17	5	22	1,566	2,024	30,393	33,983	34,005	264	36,075	36,339	2,334	0	2,334
08/14/2018	17	5	22	1,708	2,133	25,689	29,530	29,552	182	26,465	26,647	0	2,905	(2,905)
08/15/2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08/16/2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08/17/2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08/18/2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08/19/2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08/20/2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08/21/2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08/22/2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08/23/2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08/24/2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08/25/2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08/26/2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08/27/2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08/28/2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08/29/2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08/30/2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08/31/2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	238	70	308	34,259	46,630	449,667	530,556	530,864	3,327	511,859	515,186	8,114	23,792	(15,678)

Storage Balance Management



- Each day you can view:
 - Injections
 - Withdrawals
 - Off-System Storage Withdrawals
 - Withdrawal Autobalance
 - Injection Autobalance
 - Ending Balance
- Totals are displayed at the bottom
- Report has Download to Excel capability

Storage Balance Management - Vectren Energy Delivery of Ohio

Gas Month: 05/2018 Pool: All Retrieve

Print Export Help

Gas Day	Withdrawal	Withdrawal Off System Volume	Injection Volume	Withdrawal Autobalance	Injection Autobalance	Ending Balance
05/01/2018	2	0	14,544	1,812	0	385,363
05/02/2018	2	0	14,544	0	1,438	401,343
05/03/2018	2	0	14,544	0	2,632	418,517
05/04/2018	2	0	14,544	0	392	433,451

Storage Balance Management - Vectren Energy Delivery of Ohio

Gas Month: 05/2018 Pool: CONVERGENCE POWER MARKETING\CHVEDO Retrieve

Print Export Help

Gas Day	Withdrawal	Withdrawal Off System Volume	Injection Volume	Withdrawal Autobalance	Injection Autobalance	Ending Balance	Avg. Daily Balance	Calculation Type	Timestamp
05/01/2018	1	0	7,272	703	0	151,150	151,150	System Calculated	07/11/2018 08:47 AM
05/02/2018	1	0	7,272	0	558	158,979	155,064	System Calculated	07/11/2018 08:47 AM
05/03/2018	1	0	7,272	0	1,021	167,271	159,133	System Calculated	07/11/2018 08:47 AM

Storage Balance Management - Vectren Energy Delivery of Ohio

Gas Month: 05/2018 Pool: CONVERGENCE POWER MARKETING\SCOVVEDO Retrieve

Print Export Help

Gas Day	Withdrawal	Withdrawal Off System Volume	Injection Volume	Withdrawal Autobalance	Injection Autobalance	Ending Balance	Avg. Daily Balance	Calculation Type	Timestamp
05/01/2018	1	0	7,272	1,109	0	234,213	234,213	System Calculated	07/11/2018 08:47 AM
05/02/2018	1	0	7,272	0	880	242,364	238,288	System Calculated	07/11/2018 08:47 AM
05/03/2018	1	0	7,272	0	1,611	251,246	242,607	System Calculated	07/11/2018 08:47 AM
05/04/2018	1	0	7,272	0	240	258,757	246,645	System Calculated	07/11/2018 08:47 AM
05/05/2018	1	0	7,272	258	0	265,770	250,470	System Calculated	07/11/2018 08:47 AM
05/06/2018	1	0	7,272	282	0	272,759	254,184	System Calculated	07/11/2018 08:47 AM
05/07/2018	1	0	7,272	0	2,171	282,201	258,187	System Calculated	07/11/2018 08:47 AM
05/08/2018	1	0	7,272	0	1,199	290,671	262,247	System Calculated	07/11/2018 08:47 AM
05/09/2018	1	0	7,272	0	1,099	299,041	266,335	System Calculated	07/11/2018 08:47 AM
05/10/2018	1	0	7,272	0	937	321,233	271,825	LDC Entered	07/11/2018 09:20 AM

Storage Summary



-Each day you can view:

- Beginning Balance
- Ending Balance
- SCQ
- Recommended Balance
- Minimum Required Balance
- Variance from Required
- % Full

Storage Summary - Vectren Energy Delivery of Ohio

Gas Month: 06/2018 Pool: All Retrieve

Print Export Help

Gas Day	Beginning Balance	Ending Balance	SCQ	Recommended Balance	Minimum Required Balance	Variance from Required	% Full
06/01/2018	819,725	810,511	2,237,335	55,933	0	0	36.23 %
06/02/2018	810,511	803,397	2,237,335	55,933	0	0	35.91 %
06/03/2018	803,397	796,124	2,237,335	55,933	0	0	35.58 %
06/04/2018	796,124	785,545	2,237,335	55,933	0	0	35.11 %

Storage Summary - Vectren Energy Delivery of Ohio

Gas Month: 06/2018 Pool: CONVERGENCE POWER MARKETINGICHIVEDO Retrieve

Print Export Help

Gas Day	Beginning Balance	Ending Balance	SCQ	Recommended Balance	Minimum Required Balance	Variance from Required	% Full	Timestamp
06/01/2018	316,414	312,856	863,611	21,590	0	0	36.23 %	07/11/2018 08:51 AM
06/02/2018	312,856	310,109	863,611	21,590	0	0	35.91 %	07/11/2018 08:51 AM
06/03/2018	310,109	307,300	863,611	21,590	0	0	35.58 %	07/11/2018 08:51 AM
06/04/2018	307,300	303,215	863,611	21,590	0	0	35.11 %	07/11/2018 08:51 AM

02/09/2018	1,807	1,805	5,996	1,799	1,799	0	30.10 %
02/10/2018	1,805	1,778	5,996	1,799	1,799	(21)	29.65 %
02/11/2018	1,778	1,735	5,996	1,799	1,799	(64)	28.94 %
02/12/2018	1,735	1,724	5,996	1,799	1,799	(75)	28.75 %

The Events screen allows you to search for:

- Cold OFO's
- Cold OFO's with Storage Restrictions
- Warm OFO's
- Warm OFO's with Storage Restrictions
- Curtailments

Event Management - Vectren Energy Delivery of Ohio

Start Date: 03/01/2019 End Date: 03/31/2019 Operating System: VEDO

Start Date: 03/01/2019 Priority 1: Individual Operating System and Individual Program Type
 End Date: 03/31/2019 Priority 2: Individual Operating System and All Program Types
 Priority 3: All Operating Systems and All Program Types
 Operating System: VEDO

	Event	Program Type	Imbalance Type	Operating System	Start Date	End Date
	All <input type="text"/>	All <input type="text"/>	<input type="text"/>	All <input type="text"/>		
<input type="button" value="Edit"/>	OFO	All	Cold OFO with Storage Restrictions	VEDO	03/01/2019	03/07/2019

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