

SD_COSRESDTL – Cost of Service Resource Detail Report – Rev 0

SD_COSRESDTL_<customer id>_<settlement date>_<version>.CSV

<Customer Name>

Date: mm/dd/yyyy and Version: mm/dd/yyyy hh:mm:ss GMT

Availability: Monthly

REPORT COLUMN	DESCRIPTION										
Station Cost of Service Payment											
Net Monthly Station Position	SUM (COS Final Capacity Performance Payment)										
Beginning of Month Accrued Penalty Balance	<table border="1"> <thead> <tr> <th>Condition(s)</th> <th>Beginning of Month Accrued Penalty Balance</th> </tr> </thead> <tbody> <tr> <td>Settlement month is June</td> <td>0</td> </tr> <tr> <td>Settlement month is December and accrued penalty balance (prior month) >\$0.00</td> <td>0</td> </tr> <tr> <td>All other conditions</td> <td>accrued penalty balance (prior month)</td> </tr> </tbody> </table>	Condition(s)	Beginning of Month Accrued Penalty Balance	Settlement month is June	0	Settlement month is December and accrued penalty balance (prior month) >\$0.00	0	All other conditions	accrued penalty balance (prior month)		
	Condition(s)	Beginning of Month Accrued Penalty Balance									
	Settlement month is June	0									
	Settlement month is December and accrued penalty balance (prior month) >\$0.00	0									
All other conditions	accrued penalty balance (prior month)										
Accrued Penalty Balance	Net Monthly Station Position + Beginning of Month Accrued Penalty Balance										
Preliminary Revenue Credit Performance Penalty Adjustment	<table border="1"> <thead> <tr> <th>Condition(s)</th> <th>Preliminary Revenue Credit Performance Penalty Adjustment</th> </tr> </thead> <tbody> <tr> <td>Beginning of month accrued penalty balance <= 0 and net monthly station position <= 0</td> <td>ABS (net monthly station position)</td> </tr> <tr> <td>Beginning of month accrued penalty balance < 0 and net monthly station position > 0</td> <td>-1 x MIN (net monthly station position, ABS (Beginning of Month Accrued Penalty Balance))</td> </tr> <tr> <td>Beginning of month accrued penalty balance > 0 and net monthly station position < 0 and beginning of month accrued penalty balance < ABS (net monthly station position)</td> <td>ABS (Net Monthly Station Position) - Beginning of Month Accrued Penalty Balance</td> </tr> <tr> <td>All other conditions</td> <td>0</td> </tr> </tbody> </table>	Condition(s)	Preliminary Revenue Credit Performance Penalty Adjustment	Beginning of month accrued penalty balance <= 0 and net monthly station position <= 0	ABS (net monthly station position)	Beginning of month accrued penalty balance < 0 and net monthly station position > 0	-1 x MIN (net monthly station position, ABS (Beginning of Month Accrued Penalty Balance))	Beginning of month accrued penalty balance > 0 and net monthly station position < 0 and beginning of month accrued penalty balance < ABS (net monthly station position)	ABS (Net Monthly Station Position) - Beginning of Month Accrued Penalty Balance	All other conditions	0
	Condition(s)	Preliminary Revenue Credit Performance Penalty Adjustment									
	Beginning of month accrued penalty balance <= 0 and net monthly station position <= 0	ABS (net monthly station position)									
	Beginning of month accrued penalty balance < 0 and net monthly station position > 0	-1 x MIN (net monthly station position, ABS (Beginning of Month Accrued Penalty Balance))									
	Beginning of month accrued penalty balance > 0 and net monthly station position < 0 and beginning of month accrued penalty balance < ABS (net monthly station position)	ABS (Net Monthly Station Position) - Beginning of Month Accrued Penalty Balance									
All other conditions	0										
Preliminary Winter Fuel Security Penalty	Preliminary monthly penalty value based on COS performance score and Winter Fuel Security Penalty rate.										
Amount not Charged due to Monthly Cap	MIN(0, Preliminary Winter Fuel Security Penalty – Preliminary Revenue Credit Performance Penalty Adjustment – Monthly Winter Fuel and Perf Penalty Cap) x -1										
Prior Month Cumulative Annual WFSP and Perf Payment	The cumulative penalties incurred by the resources pursuant to sections 3.6 and 3.7 of the Agreement, used in calculating the cap to such penalties as provided for in section 3.7 of the Agreement. Equal to 0 when the current settlement month is June and calculated as Cumulative Annual WFSP and Perf Payment when the current settlement month is not June.										
Preliminary Cumulative Annual WFSP and Perf Payment	Cumulative Annual WFSP and Perf Payment – Preliminary Revenue Credit Performance Penalty Adjustment + Preliminary Winter Fuel Security Penalty										

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REPORT COLUMN	DESCRIPTION								
Amount not Charged due to Annual Cap	MIN (0, Preliminary Cumulative Annual WFSP and Perf Payment – Annual Winter Fuel and Perf Penalty Cap0000) x -1								
Final Amount not Charged due to Cap	MAX (Amount not Charged due to Monthly Cap, Amount not Charged due to Annual Cap)								
Winter Fuel Security Penalty	MIN(0, Preliminary Winter Fuel Security Penalty + Final Amount not Charged due to Cap)								
Revenue Credit Performance Penalty Adjustment	<table border="1"> <thead> <tr> <th>Condition(s)</th> <th>Revenue Credit Performance Penalty Adjustment</th> </tr> </thead> <tbody> <tr> <td>Preliminary Winter Fuel Security Penalty < 0 and Preliminary Winter Fuel Security Penalty + Final Amount not Charged due to Cap > 0</td> <td>Preliminary Revenue Credit Performance Penalty Adjustment – Preliminary Winter Fuel Security Penalty – Final Amount not Charged due to Cap</td> </tr> <tr> <td>Preliminary Winter Fuel Security Penalty = 0 and Final Amount not Charged due to Cap > 0</td> <td>Preliminary Revenue Credit Performance Penalty Adjustment – Final Amount not Charged due to Cap</td> </tr> <tr> <td>All other conditions</td> <td>Preliminary Revenue Credit Performance Penalty Adjustment</td> </tr> </tbody> </table>	Condition(s)	Revenue Credit Performance Penalty Adjustment	Preliminary Winter Fuel Security Penalty < 0 and Preliminary Winter Fuel Security Penalty + Final Amount not Charged due to Cap > 0	Preliminary Revenue Credit Performance Penalty Adjustment – Preliminary Winter Fuel Security Penalty – Final Amount not Charged due to Cap	Preliminary Winter Fuel Security Penalty = 0 and Final Amount not Charged due to Cap > 0	Preliminary Revenue Credit Performance Penalty Adjustment – Final Amount not Charged due to Cap	All other conditions	Preliminary Revenue Credit Performance Penalty Adjustment
Condition(s)	Revenue Credit Performance Penalty Adjustment								
Preliminary Winter Fuel Security Penalty < 0 and Preliminary Winter Fuel Security Penalty + Final Amount not Charged due to Cap > 0	Preliminary Revenue Credit Performance Penalty Adjustment – Preliminary Winter Fuel Security Penalty – Final Amount not Charged due to Cap								
Preliminary Winter Fuel Security Penalty = 0 and Final Amount not Charged due to Cap > 0	Preliminary Revenue Credit Performance Penalty Adjustment – Final Amount not Charged due to Cap								
All other conditions	Preliminary Revenue Credit Performance Penalty Adjustment								
Cumulative Annual WFSP and Performance Payment	Cumulative Annual WFSP and Performance Payment (prior month) – Revenue Credit Performance Penalty Adjustment + Winter Fuel Security Penalty								
Capacity Base Payments	SUM (Capacity Resource Supply Credit)								
Capacity Performance Payments	SUM (Final Capacity Performance Payment)								
Day-Ahead Energy Revenue	SUM (Day-Ahead Energy Revenue)								
Day-Ahead NCPC Revenue	SUM (Day-Ahead NCPC Credit)								
Real-Time Energy Revenue	SUM (Real-Time Energy Revenue)								
Real-Time Inadvertent Energy Revenue	SUM (Real-Time Inadvertent Energy Revenue)								
Real-Time NCPC Revenue	SUM (Real-Time NCPC Credit)								
Regulation Revenue	SUM (Regulation Service Credit + Regulation Capacity Credit + Regulation Make Whole Credit + Regulation Up Reserve Charge)								
Real-Time Reserve Revenue	SUM (Real-Time Reserve Revenue)								
Forward Reserve Revenue	SUM (Forward Reserve Revenue)								
Forward Reserve Obligation Charge	SUM (Forward Reserve Obligation Charge)								
VAR Capacity Cost Credits	SUM (VAR Capacity Cost Credit)								

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REPORT COLUMN	DESCRIPTION						
Emergency Sales Revenues	SUM (Emergency Sales Revenues)						
Monthly Revenues	Day-Ahead Energy Revenue + Day-Ahead NCPC + Real-Time Energy Revenue + Real-Time Inadvertent Energy Revenue + Real-Time NCPC Revenue + Regulation Revenue + Real-Time Reserve Revenue + COS FRM Credit + COS FROC + VAR Capacity Cost Credits + Emergency Sales Revenues + Non-Market Other Revenues						
Start Up Cost	SUM (Start Up Cost)						
No Load Cost	SUM (No Load Cost)						
Incremental Energy Cost	SUM (Incremental Energy Cost)						
Regulation Cost	SUM (Regulation Service Cost) + SUM (Regulation Capacity Cost)						
Monthly Cost	Start Up Cost + No-Load Cost + Incremental Energy Cost + Regulation Cost						
Revenue Credit	Capacity Base Payments + Revenue Credit Performance Penalty Adjustment + Capacity Performance Payments + Monthly Revenues – Monthly Cost						
Annual Fixed Revenue Requirement	The Annual Fixed Revenue Requirement for Mystic 8 & 9 as specified in the agreement.						
Monthly Fuel Supply Cost	The fuel supply cost as defined in the fuel supply agreement between Constellation Mystic, LLC and Constellation LNG, LLC for the obligation month.						
Maximum Monthly Fixed Cost Payment	Annual Fixed Revenue Requirement / 12 + Monthly Fuel Supply Cost						
Prior Month Carryover Revenue Credit	<table border="1"> <thead> <tr> <th>Condition(s)</th> <th>Prior Month Carryover Revenue Credit</th> </tr> </thead> <tbody> <tr> <td>Settlement month is June 2022</td> <td>0</td> </tr> <tr> <td>All other months</td> <td>Carryover Revenue Credit (prior month)</td> </tr> </tbody> </table>	Condition(s)	Prior Month Carryover Revenue Credit	Settlement month is June 2022	0	All other months	Carryover Revenue Credit (prior month)
Condition(s)	Prior Month Carryover Revenue Credit						
Settlement month is June 2022	0						
All other months	Carryover Revenue Credit (prior month)						
Preliminary Supplemental Capacity Payment	Maximum Monthly Fixed Cost Payment + Winter Fuel Security Penalty – Monthly Revenue Credit						

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REPORT COLUMN	DESCRIPTION			
Carryover Revenue Credit	Condition(s)		Carryover Revenue Credit	
	Settlement month is May 2024		0	
	All other months		-1 x MIN(0, Preliminary Supplemental Capacity Payment – Prior Month Carryover Revenue Credit)	
Note: If the Preliminary Supplemental Capacity Payment is negative, (meaning that revenue credits exceed the maximum monthly payment) the value will roll forward to offset payments to Exelon in a future month, except in the final month of the term where Exelon would be charged for remaining negative balance.				
Supplemental Capacity Payment	Condition(s)		Supplemental Capacity Payment	
	Settlement month is May 2024		Preliminary Supplemental Capacity Payment – Prior Month Carryover Revenue Credit	
	All other months		MAX (0, Preliminary Supplemental Capacity Payment – Prior Month Carryover Revenue Credit)	
Resource Cost of Service Capacity Performance Payment				
Resource ID	Resource ID			
Resource Name	Resource Name			
COS Capacity Supply Obligation	Resource ID	Resource Name	Months	COS Capacity Supply Obligation
	1478	Mystic 8	March-November	703.00
	1478	Mystic 8	December-February	842.00
	1616	Mystic 9	March-November	714.00
	1616	Mystic 9	December-February	858.00
COS Monthly Stop-Loss	COS Capacity Supply Obligation x FCA starting price x 1,000 x (-1)			
COS Maximum Capacity Supply Obligation	MAX (COS Capacity Supply Obligation) for any month in the capacity commitment period from the start of the period to (and including) the settlement month.			
COS Annual Stop-Loss	COS Maximum Capacity Supply Obligation x Annual Performance Payment Stop Loss Rate x 1,000			
COS Capacity Performance Payment	SUM ((COS performance score + bilateral performance score MW) x capacity performance payment rate / 12)			

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REPORT COLUMN	DESCRIPTION
COS Stop-Loss Capacity Performance Payment	SUM ((MIN ((COS performance score + bilateral performance score MW), (MAX(0, COS capacity supply obligation x (1 - balancing ratio))) x capacity performance payment rate CCP / 12)
COS Amount not Charged due to Monthly Stop-Loss	MIN (0, (COS Stop-Loss Capacity Performance Payment – COS Monthly Stop-Loss)) x (-1)
COS Preliminary Stop-Loss Annual Capacity Performance Payment	COS stop-loss annual capacity performance payment from prior settlement Months + COS Stop-Loss Capacity Performance Payment Where COS stop-loss annual capacity performance payment from prior settlement months is equal to the COS Final Stop-Loss Annual Capacity Performance Payment from the prior month in the CCP.
COS Amount not Charged due to Annual Stop-Loss	MIN (0, (COS Preliminary Stop-Loss Annual Capacity Performance Payment – COS Annual Stop-Loss)) x (-1)
COS Amount not Charged due to Stop-Loss	MAX(COS Amount not Charged due to Monthly Stop-Loss, COS Amount not Charged due to Annual Stop-Loss)
COS Final Capacity Performance Payment	COS Capacity Performance Payment + Final Balancing Fund Payment + COS Amount not Charged due to Stop-Loss
COS Final Stop-Loss Annual Capacity Performance Payment	COS Stop-Loss Annual Capacity Performance Payment from prior Settlement Months + COS Stop-Loss Capacity Performance Payment + Final Balancing Fund Payment + COS Amount not Charged due to Stop-Loss
Daily Market Asset Revenue	
Asset ID	Asset ID
Asset Name	Asset Name
Market Day	Market Day
Day-Ahead Energy Revenue	SUM (Day-Ahead Cleared MWs x Day-Ahead LMP)
Day-Ahead NCPC Revenue	Day-ahead NCPC Credits
Real-Time Energy Revenue	SUM (Energy Quantity – Day-Ahead Cleared MWs) x Real-Time LMP / 12
Real-Time Inadvertent Energy Revenue	SUM (Energy Quantity x Inadvertent Energy Cost / (Inadvertent Energy RTGO allocator + Inadvertent Energy RTLO allocator + Inadvertent Energy DRO allocator))

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Real-Time NCPC Revenue	Real-time NCPC Credit
Regulation Service Credit	SUM (Regulation Service Credit)
Regulation Capacity Credit	SUM (Regulation Capacity Credit)
Regulation Make Whole Credit	SUM (Regulation Make Whole Credit)
Regulation Up Reserve Charge	SUM (Regulation Up Reserve Charge)
Real-Time Reserve Revenue	SUM (Real-Time Reserve Credit)
Forward Reserve Revenue	SUM (Net Forward Reserve Credit x SUM (FRM assigned MW) / SUM (FRM assigned MW))
Forward Reserve Obligation Charge	SUM (SUM (Forward Reserve Obligation Charge) x SUM (FRM assigned MW) / SUM (FRM assigned))
Emergency Sales Revenue	SUM (Emergency Sales Negative Gen Deviation x Emergency Sales Total Dollars / Emergency Sales Total Allocator Factor)
Daily Market Asset Costs	
Asset ID	Asset ID
Asset Name	Asset Name
Market Day	Market Day

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REPORT COLUMN	DESCRIPTION																
Start-Up Cost	<p>SUM (Offered Start-Up Cost – Total Start-Up Fuel \times Fuel Opportunity Cost)</p> <p>Where Offered Start-Up Cost =</p> <table border="1" data-bbox="573 546 1328 772"> <thead> <tr> <th>Condition(s)</th> <th>Offered Start-Up Cost</th> </tr> </thead> <tbody> <tr> <td>Type of start = Hot</td> <td>Effective offer for dispatch hot start-up price</td> </tr> <tr> <td>Type of start = Intermediate</td> <td>Effective offer for dispatch intermediate start-up price</td> </tr> <tr> <td>Type of start = Cold</td> <td>Effective offer for dispatch cold start-up price</td> </tr> </tbody> </table> <p>And total Start-Up Fuel =</p> <table border="1" data-bbox="573 856 1328 1108"> <thead> <tr> <th>Condition(s)</th> <th>Total Start-Up Fuel</th> </tr> </thead> <tbody> <tr> <td>Type of start = Hot</td> <td>Hot start-up fuel + hot start-up fuel boil-off adder</td> </tr> <tr> <td>Type of start = Intermediate</td> <td>Intermediate start-up fuel + intermediate start-up fuel boil-off adder</td> </tr> <tr> <td>Type of start = Cold</td> <td>Cold start-up fuel + cold start-up fuel boil-off adder</td> </tr> </tbody> </table> <p>The fuel opportunity cost is the amount, if any, by which the AGT (Citygate) fuel index price exceeds the <i>Fuel Index Price</i>, and/or the opportunity cost associated with a limited supply of fuel, as approved by ISO and ISO market monitoring.</p>	Condition(s)	Offered Start-Up Cost	Type of start = Hot	Effective offer for dispatch hot start-up price	Type of start = Intermediate	Effective offer for dispatch intermediate start-up price	Type of start = Cold	Effective offer for dispatch cold start-up price	Condition(s)	Total Start-Up Fuel	Type of start = Hot	Hot start-up fuel + hot start-up fuel boil-off adder	Type of start = Intermediate	Intermediate start-up fuel + intermediate start-up fuel boil-off adder	Type of start = Cold	Cold start-up fuel + cold start-up fuel boil-off adder
Condition(s)	Offered Start-Up Cost																
Type of start = Hot	Effective offer for dispatch hot start-up price																
Type of start = Intermediate	Effective offer for dispatch intermediate start-up price																
Type of start = Cold	Effective offer for dispatch cold start-up price																
Condition(s)	Total Start-Up Fuel																
Type of start = Hot	Hot start-up fuel + hot start-up fuel boil-off adder																
Type of start = Intermediate	Intermediate start-up fuel + intermediate start-up fuel boil-off adder																
Type of start = Cold	Cold start-up fuel + cold start-up fuel boil-off adder																
No-Load Cost	<p>SUM (Effective Offer for Dispatch No-Load Price - (No-Load Fuel + No-Load Fuel Boil-Off Adder) \times Fuel Opportunity Cost)</p>																
Incremental Energy Cost	<p>SUM (Incremental Energy Cost) based on the following table:</p> <table border="1" data-bbox="573 1459 1446 1843"> <thead> <tr> <th>Condition(s)</th> <th>Incremental Energy Cost</th> </tr> </thead> <tbody> <tr> <td>Fuel Management = 'N' and Preliminary Energy Cost > Day-Ahead Energy Revenue + Real-time Energy Revenue and must run flag = 'Y' or self-dispatch MW > 0</td> <td>Day-Ahead Energy Revenue + Real-Time Energy Revenue</td> </tr> <tr> <td>All other conditions</td> <td>Preliminary Energy Cost</td> </tr> </tbody> </table>	Condition(s)	Incremental Energy Cost	Fuel Management = 'N' and Preliminary Energy Cost > Day-Ahead Energy Revenue + Real-time Energy Revenue and must run flag = 'Y' or self-dispatch MW > 0	Day-Ahead Energy Revenue + Real-Time Energy Revenue	All other conditions	Preliminary Energy Cost										
Condition(s)	Incremental Energy Cost																
Fuel Management = 'N' and Preliminary Energy Cost > Day-Ahead Energy Revenue + Real-time Energy Revenue and must run flag = 'Y' or self-dispatch MW > 0	Day-Ahead Energy Revenue + Real-Time Energy Revenue																
All other conditions	Preliminary Energy Cost																

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	WHERE preliminary energy cost is calculated using energy quantity and the segments of the revised offer price which is equal to: Real-Time EOD Offer Price – Incremental Heat Rate \times Fuel Opportunity Cost and Incremental Heat Rate is equal to: Heat Rate Coefficient B + (2 \times Heat Rate Coefficient C \times Real-Time EOD Offer MW) + (3 \times Heat Rate Coefficient D \times Real-Time EOD Offer MW ²)
Regulation Service Cost	SUM (Regulation Service Cost)
Regulation Capacity Cost	SUM (Regulation Capacity Cost)

SD_COSRESDTL Change Summary	Effective Date
New.	06.01.2022