



EPCOR Distribution & Transmission Inc.

2023 System Access Service Rate Update

May 5, 2023

Alberta Utilities Commission

Decision 28133-D01-2023

EPCOR Distribution & Transmission Inc.

2023 System Access Service Rate Update

Proceeding 28133

May 5, 2023

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The Commission may, no later than 30 days from the date of this decision and without notice, correct typographical, spelling and calculation errors and other similar types of errors and post the corrected decision on its website.

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1 Decision summary

1. In this decision, the Alberta Utilities Commission approves as filed an application by EPCOR Distribution & Transmission Inc. (EPCOR) for an update to its 2023 system access service (SAS) rates, effective July 1, 2023.

2 Introduction and procedural background

2. On March 30, 2023, EPCOR filed an application with the Commission requesting approval for an update to its 2023 SAS rates effective July 1, 2023.

3. The Commission issued a notice of the application on March 31, 2023, and requested that interested parties submit a statement of intent to participate (SIP) by April 14, 2023. The Commission did not receive any SIPs.

4. The Commission reviewed the application pursuant to its *basic written* process, as outlined in Commission Bulletin 2015-09.¹

5. The Commission has reviewed the entire record in coming to this decision; lack of reference to a matter addressed in evidence or argument does not mean that it was not considered.

3 Background and details of application

6. EPCOR's SAS rates are designed to recover charges paid by EPCOR to the Alberta Electric System Operator (AESO) for access to the transmission system. In addition to recovering AESO charges through SAS rates, EPCOR reconciles variances between the forecast SAS revenues and forecast AESO costs on a quarterly basis through its AESO demand transmission service (DTS) deferral account Rider K. Any residual variances between SAS revenues and DTS costs are reconciled in the annual transmission access charge deferral account true-up process to ensure that the revenues collected through its transmission access charges in a year recover the AESO tariff charges that EPCOR pays to the AESO in that year. Ultimately, AESO charges are flown through dollar-for-dollar to EPCOR's customers meaning that the utility does not assume any volume or price risk, but also does not earn any return, nor risk losses, in flowing through these costs to customers.

7. On December 13, 2022, the Commission issued Decision 27653-D01-2022,² approving EPCOR's 2023 SAS rates together with 2023 distribution rate adjustments. On December 21,

¹ Bulletin 2015-09, Performance standards for processing rate-related applications, March 26, 2015.

² Decision 27653-D01-2022: EPCOR Distribution & Transmission Inc., 2023 Distribution COS Compliance Filing, Proceeding 27653, December 13, 2022.

2022, the Commission issued Decision 27777-D01-2022,³ approving the AESO's 2023 Independent System Operator (ISO) tariff update, including changes to all of the AESO DTS rates components (i.e., energy, demand and customer charges). In this application, EPCOR requested approval to update its 2023 SAS rates effective July 1, 2023, in order to update its SAS cost-of-service model to align with the changes to the AESO DTS rate components.⁴

8. EPCOR explained that it calculated its proposed updated 2023 SAS rates using the same methodology that was approved for its most recent 2023 SAS rates in Decision 27653-D01-2022. In this application, EPCOR only updated its SAS rates to reflect the most recently approved 2023 AESO DTS costs. The other inputs used in EPCOR's SAS rate calculation are pool price, operating reserve percentages, allocators, point of delivery (POD) and billing determinants, which are unchanged and are the same values approved for 2023 in Decision 27653-D01-2022.⁵

9. Although the existing quarterly AESO DTS deferral account Rider K will true up variances between the forecast SAS revenues and forecast DTS costs, EPCOR expressed preference to update the SAS rates. According to EPCOR, an update to its SAS rates offers more precision and better reflects cost causation, because in the quarterly applications, the variances in costs are allocated and collected using an energy charge irrespective of the driver of the variance (such as higher AESO demand charges), which could cause inequalities between customer rate classes.⁶

10. EPCOR forecast its total SAS revenue requirement for the period July 1, 2023, to December 31, 2023, to be \$144.34 million, excluding direct connect (DC) customers. DC customers continue to have the AESO transmission charges directly flowed through to each site. The forecast transmission costs attributed to the AESO POD and DC customers have been calculated based on the AESO's 2023 ISO tariff update and the POD billing determinants for July 1, 2023, to December 31, 2023. EPCOR provided the detailed 2023 SAS cost-of-service model for non-DC customers and for DC customers in Attachment 2 of the application.⁷

11. EPCOR provided Table 1 below, which shows the SAS cost-of-service study inputs used in the calculation of its 2023 SAS rates. As mentioned above, the only change in the inputs for 2023 from those approved in Decision 27653-D01-2022 is the AESO DTS rates:

Table 1. SAS cost-of-service study inputs⁸

Input	Source
AESO DTS rates	AESO 2023 DTS tariff (Decision 27777-D01-2022)
Pool price	\$102.37 per megawatt hour*
Operating reserve percentage	5.85%*
POD, SAS, DAS [distribution access service] billing determinants	2023 approved billing determinants*

*Approved for 2023 in Decision 27653-D01-2022.

³ Decision 27777-D01-2022: Alberta Electric System Operator, 2023 ISO Tariff Update, Proceeding 27777, December 21, 2022.

⁴ Exhibit 28133-X0012, application, paragraph 4.

⁵ Exhibit 28133-X0012, application, paragraph 8.

⁶ Exhibit 28133-X0012, application, paragraph 5.

⁷ Exhibit 28133-X0013, Attachment 2, Tab SAS-1b 2023.

⁸ Exhibit 28133-X0012, application, Table 3.1.

12. EPCOR provided a table showing the bill comparison to indicate the impact of updated SAS rates from June 2023 to July 2023 for a typical customer in each of its rate classes, and noted the impact to each rate class is less than 10 per cent:

Table 2. Bill comparison summary for a typical customer (June 2023 to July 2023)⁹

Rate class	Change %
Residential	0.3
Small Commercial	0.5
Medium Commercial	0.3
Time of Use	0.4
Time of Use Primary	0.2
Customer Specific	0.4
Customer Specific totalized	(1.5)
Street Lights	0.3
Traffic Lights	0.4
Lane Lights	0.5
Security Lights	0.1

4 Commission findings

13. The Commission approves EPCOR's proposal to update its 2023 SAS rates to reflect the changes to the DTS rates approved in the AESO's 2023 ISO tariff update.

14. The Commission has reviewed EPCOR's calculations of its proposed 2023 SAS rates and finds the calculations to be reflective of the currently approved AESO tariff and consistent with the approvals in Decision 27653-D01-2022 dealing with various components of EPCOR's 2023 rates. The Commission also finds the bill impacts from the updated SAS rates (provided by EPCOR in Table 2 above) to be reasonable.

15. The Commission approves EPCOR's 2023 SAS rates effective July 1, 2023, as shown in [Appendix 2](#) of this decision.

⁹ Exhibit 28133-X0012, application, Table 4.0-1.

5 Order

16. It is hereby ordered that:

- (1) EPCOR Distribution & Transmission Inc. shall implement the 2023 system access service rates, set out in Appendix 2 of this decision, effective July 1, 2023.

Dated on May 5, 2023.

Alberta Utilities Commission

(original signed by)

Michael Arthur
Commission Member

Appendix 1 – Proceeding participants

Name of organization (abbreviation) Company name of counsel or representative
EPCOR Distribution & Transmission Inc. (EPCOR)

Alberta Utilities Commission
Commission panel M. Arthur, Commission Member
Commission staff V. Wang A. Jukov

Appendix 2 – 2023 Transmission SAS tariff

[\(return to text\)](#)



Appendix 2 - 2023
Transmission SAS tari

(consists of 27 pages)

DT – Schedule A
Transmission Access Service Tariff
Effective July 1, 2023

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RESIDENTIAL SERVICE (2023 FINAL RATE)

Price Schedule SAS-R

Effective: July 1, 2023

- For System Access Service for all Points of Service throughout the territory served by the Company.
- For single-phase service at secondary voltage through a single meter.
- For normal use by a single and separate household.
- Not applicable to any commercial or industrial use.

Price

- The charge for service in any one billing day is the Energy Charge, determined for each individual Point of Service.

	Energy Charge (per kWh)
Transmission	SAS-R1* \$0.03927

- The minimum daily charge is the Energy Charge.

Application

- 1) **Price Adjustments** - the following price adjustments (riders) may apply:

Local Access Fees (Rider LAF) – See Note
Temporary Adjustment (Rider G)
Interim Adjustment (Rider J)
Short Term Adjustment (Rider K)

Note: The Local Access Fee (LAF) is a surcharge imposed by the City of Edmonton and is not approved by the Alberta Utilities Commission. The LAF applies to all sites within the City of Edmonton.

* Refer to the values associated with the Cell References in the Attached Table 3.

**Commercial/Industrial <50 kVA
 (2023 FINAL RATE)**

Price Schedule SAS-SC

Effective: July 1, 2023

- For System Access Service for all Points of Service that have a normal maximum demand of less than 50 kVA with single or three-phase electric service at secondary voltage, throughout the territory served by the Company. These services will have energy meters or will have energy consumption on an estimated basis. This rate is also applicable to all sites for which no other rate is applicable.

Price

- Charges for service in any one billing day shall be the Energy Charge, determined for each individual Point of Service:

	Energy Charge (per kWh)
Transmission	SAS-SC1* \$0.04096

- The minimum daily charge is the Energy Charge.

Application

- Power Factor Correction** - where a Customer's power factor is found to be less than 90%, the Company may require the Customer to install corrective equipment
- Price Adjustments** - the following price adjustments (riders) may apply:
 - Local Access Fees (Rider LAF) – See Note
 - Temporary Adjustment (Rider G)
 - Interim Adjustment (Rider J)
 - Short Term Adjustment (Rider K)

Note: The Local Access Fee (LAF) is a surcharge imposed by the City of Edmonton and is not approved by the Alberta Utilities Commission. The LAF applies to all sites within the City of Edmonton.

* Refer to the values associated with the Cell References in the Attached Table 3.

Commercial/Industrial 50 kVA to <150 kVA (2023 FINAL RATE)
--

Price Schedule SAS-MC*Effective: July 1, 2023*

- For System Access Service for all Points of Service that have a normal maximum demand of greater than or equal to 50 kVA and less than 150 kVA, with single or three-phase electric service at secondary voltage, throughout the territory served by the Company. These services will have demand meters

Price

- Charges for service in any one billing day shall be the sum of the Capacity Charge, Energy Charge and Demand Charge, determined for each individual Point of Service:

	Capacity Charge (per kVA of billing demand per Day)	Energy Charge (per kWh)	Demand Charge (per kVA of peak metered demand per Day)
Transmission	SAS-MC1* \$0.09755	SAS-MC2* \$0.00841	SAS-MC3* \$0.20587

- The billing demand may be estimated or measured and will be the greater of the following:
 - the highest metered demand during the billing period;
 - 90% of the highest metered demand in the twelve month period including and ending with the billing period;
 - the estimated demand;
 - the contract demand;
 - 5 kVA.
- The Peak Metered Demand is the highest metered demand in the billing period.
- The minimum daily charge is the sum of the Capacity Charge, Energy Charge and Demand Charge.

Application

- Power Factor Correction** - where a Customer's power factor is found to be less than 90%, the Company may require the Customer to install corrective equipment
- Price Adjustments** - the following price adjustments (riders) may apply:
 - Local Access Fees (Rider LAF) – See Note
 - Temporary Adjustment (Rider G)
 - Interim Adjustment (Rider J)
 - Short Term Adjustment (Rider K)

Note: The Local Access Fee (LAF) is a surcharge imposed by the City of Edmonton and is not approved by the Alberta Utilities Commission. The LAF applies to all sites within the City of Edmonton.

* Refer to the values associated with the Cell References in the Attached Table 3.

Commercial/Industrial 150 kVA to <5,000 kVA
Distribution-Connected
(2023 FINAL RATE)

Price Schedule SAS-TOU

Effective: July 1, 2023

- For System Access Services, single or three-phase, that have a normal maximum demand of greater than or equal to 150 kVA and less than 5,000 kVA, for all Points of Service throughout the territory served by the Company from the Alberta Interconnected System. This rate is applicable to all sites that are served at the secondary voltage of the transformer, normally with a delivery voltage of below 1,000 volts.
- The Point of Service must be equipped with interval data metering.

Price

- Charges for service in any one billing day shall be the sum of the Energy Charge, Capacity Charge, OSS Charge, Operating Reserve Charges and Demand Charge, determined for each individual Point of Service:

	Energy Charge (per kWh)	Capacity Charge (per kW of billing demand per Day)	OSS Charge (per kW per Day)	Operating Reserve (% x kWh delivered during each hour x Applicable Pool Price during each hour)	Demand Charge (per kW of peak metered demand per Day)
Transmission	SAS-TOU1* \$0.00223	SAS-TOU2* \$0.14275	SAS-TOU3* \$0.00061	SAS-TOU4* 5.96%	SAS-TOU5* \$0.28465

- **Billing demand** shall be the higher of:
 - (a) The highest metered demand during the billing period;
 - (b) 85% of the highest metered demand in the 12-month period including and ending with the billing period;
 - (c) the estimated demand;
 - (d) the Transmission Contract Demand (TCD);
 - (e) 50 kilowatts.
- The Peak Metered Demand is the highest metered demand in the billing period.

<p style="text-align: center;">Commercial/Industrial 150 kVA to <5,000 kVA Distribution Connected (2023 FINAL RATE)</p>

Price Schedule SAS-TOU (Continued)

Effective: July 1, 2023

Application

- 1) **Power Factor Correction** - where a Customer's power factor is found to be less than 90%, the Company may require the Customer to install corrective equipment
- 2) **Price Adjustments** - the following price adjustments (riders) may apply:
 - Local Access Fees (Rider LAF) – See Note
 - Temporary Adjustment (Rider G)
 - Interim Adjustment (Rider J)
 - Short Term Adjustment (Rider K)

Note: The Local Access Fee (LAF) is a surcharge imposed by the City of Edmonton and is not approved by the Alberta Utilities Commission. The LAF applies to all sites within the City of Edmonton.

* Refer to the values associated with the Cell References in the Attached Table 3.

**Primary Commercial/Industrial 150 kVA to <5,000 kVA
 Distribution Connected
 (2023 FINAL RATE)**

Price Schedule SAS-TOUP

Effective: July 1, 2023

- For System Access Service, single or three-phase, that have a normal maximum demand of greater than or equal to 150 kVA and less than 5,000 kVA, for all Points of Service throughout the territory served by the Company from the Alberta Interconnected System. This rate is applicable to all sites that are served at the primary voltage of the transformer, normally with a delivery voltage of over 1,000 volts.
- The Point of Service must be equipped with interval data metering.

Price

- Charges for service in any one billing day shall be the sum of the Energy Charge, Capacity Charge, OSS Charge, Operating Reserve Charges and Demand Charge determined for each individual Point of Service:

	Energy Charge (per kWh)	Capacity Charge (per kW of billing demand per Day)	OSS Charge (per kW per Day)	Operating Reserve (% x kWh delivered during each hour x Applicable Pool Price during each hour)	Demand Charge (per kW of peak metered demand per Day)
Transmission	SAS-TOUP1* \$0.00220	SAS-TOUP2* \$0.12371	SAS-TOUP3* \$0.00053	SAS-TOUP4* 5.89%	SAS-TOUP5* \$0.26564

- **Billing demand** shall be the higher of:
 - a) The highest metered demand during the billing period;
 - b) 85% of the highest metered demand in the 12-month period including and ending with the billing period;
 - c) the estimated demand;
 - d) the Transmission Contract Demand (TCD);
 - e) 50 kilowatts.
- The Peak Metered Demand is the highest metered demand in the billing period.

Primary Commercial/Industrial 150 kVA to <5,000 kVA
Distribution Connected
(2023 FINAL RATE)

Price Schedule SAS-TOUP (Continued)

Effective: July 1, 2023

Application

- 1) **Power Factor Correction** - where a Customer's power factor is found to be less than 90%, the Company may require the Customer to install corrective equipment
- 2) **Price Adjustments** - the following price adjustments (riders) may apply:
 - Local Access Fees (Rider LAF) - Note
 - Temporary Adjustment (Rider G)
 - Interim Adjustment (Rider J)
 - Short Term Adjustment (Rider K)

Note: The Local Access Fee (LAF) is a surcharge imposed by the City of Edmonton and is not approved by the Alberta Utilities Commission. The LAF applies to all sites within the City of Edmonton.

* Refer to the values associated with the Cell References in the Attached Table 3.

Commercial/Industrial Greater than 5,000 kVA
Distribution-Connected
(2023 FINAL RATE)

Price Schedule SAS-CS*Effective: July 1, 2023*

- For System Access Service, single or three-phase, that have a maximum demand of greater than or equal to 5,000 kVA in the previous year, for all Points of Service throughout the territory served by the Company from the Alberta Interconnected System. This rate is also applicable to new sites that forecast to have a normal maximum demand of greater than or equal to 5,000 kVA. The Point of Service must be equipped with interval data metering.
- Each new site under this rate is required to enter into an Electric Service Agreement with EPCOR SYSTEM.

Price

- Charges for service in any one billing day shall be the sum of the Energy Charge, Capacity Charge, OSS Charge, Operating Reserve Charges and Demand Charge, determined for each individual Point of Service:

	Energy Charge (per kWh)	Capacity Charge (per kW of billing demand per Day)	OSS Charge (per kW per Day)	Operating Reserve (% x kWh delivered during each hour x Applicable Pool Price during each hour)	Demand Charge (per kW of peak metered demand per Day)
Transmission	SAS-CS1* \$0.00218	SAS-CS2* \$0.12542	SAS-CS3* \$0.00053	SAS-CS4* 5.83%	SAS-CS5* \$0.29734

- Billing demand** shall be the higher of:
 - The highest metered demand during the billing period;
 - 90% of the highest metered demand in the 24-month period including and ending with the billing period;
 - the estimated demand;
 - the Transmission Contract Demand (TCD);
 - 50 kilowatts.
- The Peak Metered Demand is the highest metered demand in the billing period.

<p style="text-align: center;">Commercial/Industrial Greater than 5,000 kVA Distribution-Connected (2023 FINAL RATE)</p>

Price Schedule SAS-CS (Continued)

Application

- 1) **Power Factor Correction** - where a Customer's power factor is found to be less than 90%, the Company may require the Customer to install corrective equipment

- 2) **Price Adjustments** - the following price adjustments (riders) may apply:
 - Local Access Fees (Rider LAF) – See Note
 - Temporary Adjustment (Rider G)
 - Interim Adjustment (Rider J)
 - Short Term Adjustment (Rider K)

Note: The Local Access Fee (LAF) is a surcharge imposed by the City of Edmonton and is not approved by the Alberta Utilities Commission. The LAF applies to all sites within the City of Edmonton.

* Refer to the values associated with the Cell References in the Attached Table 3.

Commercial/Industrial Greater than 5,000 kVA Totalized Distribution-Connected (2023 FINAL RATE)
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Price Schedule SAS-CST*Effective: July 1, 2023*

- For System Access Service, single or three-phase, that have a totalized maximum demand of greater than or equal to 5,000 kVA in the previous year, for all Points of Service throughout the territory served by the Company from the Alberta Interconnected System. This rate is also applicable to new sites that forecast to have a normal totalized maximum demand of greater than or equal to 5,000 kVA. The Point of Service must be equipped with interval data metering.
- Each new site under this rate is required to enter into an Electric Service Agreement with EPCOR SYSTEM.

Price

- Charges for service in any one billing day shall be the sum of the Capacity Charge, Energy Charge, Demand Charge, OSS Charge, Fixed POD Daily Charge and Operating Reserve Charges, determined for each individual Point of Service:

	Capacity Charge (per kW of billing demand per Day)	Energy Charge (per kWh)	Operating Reserve (% x kWh delivered during each hour x Applicable Pool Price during each hour)	OSS Charge (per kW per Day)	Fixed Point of Delivery Daily Charge	Demand Charge (per kW of peak metered demand per Day)
Transmission	SAS-CST3* \$0.15910	SAS-CST4* \$0.00219	SAS-CST5* 5.86%	SAS-CST6* \$0.00064	SAS-CST7* \$378.77	SAS-CST8* \$0.21305

- Billing demand** shall be the higher of:
 - The highest metered demand during the billing period;
 - 90% of the highest metered demand in the 24-month period including and ending with the billing period;
 - the estimated demand;
 - 90% the Transmission Contract Demand (TCD);
 - 50 kilowatts.
- The Peak Metered Demand is the highest metered demand in the billing period.

Commercial/Industrial Greater than 5,000 kVA Totalized
Distribution-Connected
(2023 FINAL RATE)

Price Schedule SAS-CST (Continued)

Application

- 1) **Power Factor Correction** - where a Customer's power factor is found to be less than 90%, the Company may require the Customer to install corrective equipment
- 2) **Price Adjustments** - the following price adjustments (riders) may apply:
 - Local Access Fees (Rider LAF) – See Note
 - Temporary Adjustment (Rider G)
 - Interim Adjustment (Rider J)
 - Short Term Adjustment (Rider K)

Note: The Local Access Fee (LAF) is a surcharge imposed by the City of Edmonton and is not approved by the Alberta Utilities Commission. The LAF applies to all sites within the City of Edmonton.

* Refer to the values associated with the Cell References in the Attached Table 3.

**Commercial/Industrial Greater than 5,000 kVA Totalized
 Distribution-Connected
 (2023 FINAL RATE)**

Price Schedule SAS-CST21

Effective: July 1, 2023

- For System Access Service, single or three-phase, that have a totalized maximum demand of greater than or equal to 5,000 kVA in the previous year, for all Points of Service throughout the territory served by the Company from the Alberta Interconnected System. This rate is also applicable to new sites that forecast to have a normal totalized maximum demand of greater than or equal to 5,000 kVA. The Point of Service must be equipped with interval data metering.
- Each new site under this rate is required to enter into an Electric Service Agreement with EPCOR SYSTEM.

Price

- Charges for service in any one billing day shall be the sum of the Capacity Charge, Energy Charge, Demand Charge, OSS Charge, Fixed POD Daily Charge and Operating Reserve Charges, determined for each individual Point of Service:

	Capacity Charge (per kW of billing demand per Day)	Energy Charge (per kWh)	Operating Reserve (% x kWh delivered during each hour x Applicable Pool Price during each hour)	OSS Charge (per kW per Day)	Fixed Point of Delivery Daily Charge	Demand Charge (per kW of peak metered demand per Day)
Transmission	SAS-CST21-3* \$0.16664	SAS-CST21-4* \$0.00219	SAS-CST21-5* 5.85%	SAS-CST21-6* \$0.00078	SAS-CST21-7* \$49.47	SAS-CST21-8* \$0.33579

- **Billing demand** shall be the higher of:
 - a) The highest metered demand during the billing period;
 - b) 90% of the highest metered demand in the 24-month period including and ending with the billing period;
 - c) the estimated demand;
 - d) 90% of the Transmission Contract Demand (TCD);
 - e) 50 kilowatts.
- The Peak Metered Demand is the highest metered demand in the billing period.

<p style="text-align: center;">Commercial/Industrial Greater than 5,000 kVA Totalized Distribution-Connected (2023 FINAL RATE)</p>

Price Schedule SAS-CST21 (Continued)

Application

- 1) **Power Factor Correction** - where a Customer's power factor is found to be less than 90%, the Company may require the Customer to install corrective equipment
- 2) **Price Adjustments** - the following price adjustments (riders) may apply:
 - Local Access Fees (Rider LAF) – See Note
 - Temporary Adjustment (Rider G)
 - Interim Adjustment (Rider J)
 - Short Term Adjustment (Rider K)

Note: The Local Access Fee (LAF) is a surcharge imposed by the City of Edmonton and is not approved by the Alberta Utilities Commission. The LAF applies to all sites within the City of Edmonton.

* Refer to the values associated with the Cell References in the Attached Table 3.

Direct Transmission-Connected (2023 FINAL RATE)
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Price Schedule SAS-DC*Effective: July 1, 2023*

- For System Access Service, single or three-phase, for all Points of Service throughout the territory served by the Company from the Alberta Interconnected System, that are directly connected to a transmission substation, and do not make any use of System facilities owned by EPCOR System.
- The Point of Service must be equipped with interval data metering.

Price

- Charges for service in any one billing day shall be the sum of the Energy Charge, Demand Charge, OSS Charge and Operating Reserve Charges, determined for each individual Point of Service:

Transmission	The applicable rate(s) of the Alberta Electric System Operator Tariff
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- **Total charges from the AESO for each Point of Delivery applicable to sites on this rate will be flowed through to such sites.**

Application

- 1) **Price Adjustments** - the following price adjustments (riders) may apply:

Local Access Fees (Rider LAF) – See Note
 Temporary Adjustment (Rider G)
 Interim Adjustment (Rider J)
 Short Term Adjustment (Rider K)

Note: The Local Access Fee (LAF) is a surcharge imposed by the City of Edmonton and is not approved by the Alberta Utilities Commission. The LAF applies to all sites within the City of Edmonton.

* Refer to the values associated with the Cell References in the Attached Table 3.

GENERATOR INTERCONNECTION

Distribution-Connected (2023 FINAL RATE)

Price Schedule SAS-DGEN

Effective: July 1, 2023

- For Points of Service served by the Company from the Alberta Interconnected System, with on-site generating equipment connected to the System, which may be used to supply load at the same site.
- For interconnection of the generator to the Distribution System
- To charge Generators if the Point of Delivery attracts STS charges from the AESO
- The Point of Service must be equipped with bi-directional interval data metering, for both supply and demand, the cost of which will be in addition to the charges under this rate.

Price

- Charges for service in any one billing day shall be the sum of the STS charges from the AESO:

Capital Recovery Charges:

- The cost of the Incremental Interconnection Facilities will be determined as set out in Section 9.4 of the Terms and Conditions for System Service Connections. The total amount will be collected from the customer in accordance with Section 9.5 of the Terms and Conditions for System Service Connections. A contract will be arranged between the customer and the Company, specifying the contract term and the monthly amount, which will be calculated using the Company's Rate of Return and Depreciation in effect at the commencement of the contract term.
- The Generating customer will be required to pay all replacement costs for incremental facilities as per Section 9.4 of the Terms and Conditions for System Service Connections.

Application

- 1) **Price Adjustments** - the following price adjustments (riders) may apply:

Local Access Fees (Rider LAF) – See Note
Temporary Adjustment (Rider G)
Interim Adjustment (Rider J)
Short Term Adjustment (Rider K)

Note: The Local Access Fee (LAF) is a surcharge imposed by the City of Edmonton and is not approved by the Alberta Utilities Commission. The LAF applies to all sites within the City of Edmonton.

STREET LIGHTING SERVICE (2023 FINAL RATE)

Price Schedule SAS-SL

Effective: July 1, 2023

- To the Retailer for services owned by the City of Edmonton for Street Lighting Service

Price

- Charges for service in any one billing month are the sum of the Demand Charges.

	Demand Charge (per kW per Day)
Transmission	SAS-SL1* \$0.24482

- Billing demand for the Transmission charges shall be 90% of the highest metered demand in the 12-month period including and ending with the billing period.

Application

- 1) **Price Adjustments** – the following price adjustments (riders) may apply:

Local Access Fees (Rider LAF) – See note
Temporary Adjustment (Rider G)
Interim Adjustment (Rider J)
Short Term Adjustment (Rider K)

Note: The Local Access Fee (LAF) is a surcharge imposed by the City of Edmonton and is not approved by the Alberta Utilities Commission. The LAF applies to all sites within the City of Edmonton.

* Refer to the values associated with the Cell References in the Attached Table 3.

Traffic Control (2023 FINAL RATE)
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Price Schedule SAS-TL*Effective: July 1, 2023*

- For services owned by the City of Edmonton for Traffic Lights and other Traffic Control Service.

Price

- Charges for service in any one billing month are the sum of the Demand Charges.

	Demand Charge (per kW per Day)
Transmission	SAS-TL1* \$0.86302

- Billing demand for the Transmission charges shall be 90% of the highest metered demand in the 12-month period including and ending with the billing period.

Application

- 1) **Price Adjustments** – the following price adjustments (riders) may apply:

Local Access Fees (Rider LAF) – See Note
 Temporary Adjustment (Rider G)
 Interim Adjustment (Rider J)
 Short Term Adjustment (Rider K)

Note: The Local Access Fee (LAF) is a surcharge imposed by the City of Edmonton and is not approved by the Alberta Utilities Commission. The LAF applies to all sites within the City of Edmonton.

- * Refer to the values associated with the Cell References in the Attached Table 3.

Security Lighting Service (2023 FINAL RATE)

Price Schedule SAS-SEL

Effective: July 1, 2023

- For existing unmetered Security Light Service. This rate is not available to new services.

Price

- Charges for service in any one billing month are the sum of the Demand Charges, determined for each individual Point of Service.

	Demand Charge (per kW per Day)
Transmission	SAS-SEL1* \$0.23118

- Billing demand for the Transmission charges shall be 90% of the highest metered demand in the 12-month period including and ending with the billing period.

Application

- 1) **Price Adjustments** – the following price adjustments (riders) may apply:

Local Access Fees (Rider LAF) – See Note
Temporary Adjustment (Rider G)
Interim Adjustment (Rider J)
Short Term Adjustment (Rider K)

Note: The Local Access Fee (LAF) is a surcharge imposed by the City of Edmonton and is not approved by the Alberta Utilities Commission. The LAF applies to all sites within the City of Edmonton.

* Refer to the values associated with the Cell References in the Attached Table 3.

Lane Lighting Service (2023 FINAL RATE)

Price Schedule SAS-LL

Effective: July 1, 2023

- For the services owned by the City of Edmonton for Lane Lights.

Price

- Charges for service in any one billing month are the sum of the Demand Charges.

	Demand Charge (per kW per Day)
Transmission	SAS-LL1* \$0.26031

- Billing demand for the Transmission charges shall be 90% of the highest metered demand in the 12-month period including and ending with the billing period.

Application

- 1) **Price Adjustments** – the following price adjustments (riders) may apply:

Local Access Fees (Rider LAF)- See Note
Temporary Adjustment (Rider G)
Interim Adjustment (Rider J)
Short Term Adjustment (Rider K)

Note: The Local Access Fee (LAF) is a surcharge imposed by the City of Edmonton and is not approved by the Alberta Utilities Commission. The LAF applies to all sites within the City of Edmonton.

* Refer to the values associated with the Cell References in the Attached Table 3.

TEMPORARY ADJUSTMENT

Rider G - Balancing Pool Rider*Effective: July 1, 2023*

- Applicable to all customers, at points of service, throughout the territory served by the Company for energy consumption.
- Current Rider G rates are available on EPCOR's website:
<https://www.epcor.com/products-services/power/rates-tariffs-fees/Pages/power-tariffs-terms-and-conditions-edmonton.aspx>

Rate Schedule	Energy Charge	Demand Charge per KW or KVA per Day	OSS Charge	Operating Reserve
SAS-R	N/A	N/A	N/A	N/A
SAS-SC	N/A	N/A	N/A	N/A
SAS-MC	N/A	N/A	N/A	N/A
SAS-TOU	N/A	N/A	N/A	N/A
SAS-TOUP	N/A	N/A	N/A	N/A
SAS-CS	N/A	N/A	N/A	N/A
SAS CST	N/A	N/A	N/A	N/A
SAS-DC	N/A	N/A	N/A	N/A
SAS-DGEN	N/A	N/A	N/A	N/A
SAS-SL	N/A	N/A	N/A	N/A
SAS-TL	N/A	N/A	N/A	N/A
SAS-SEL	N/A	N/A	N/A	N/A
SAS-LL	N/A	N/A	N/A	N/A

Note: Rider G does not apply to Rider LAF and Rider J.

INTERIM ADJUSTMENT

Rider J - SAS True-Up Rider*Effective: July 1, 2023*

- Applies to all electric service throughout the territory served by the Company when a charge or refund is approved by the AUC.
- Current Rider J rates are available on EPCOR's website:
<https://www.epcor.com/products-services/power/rates-tariffs-fees/Pages/power-tariffs-terms-and-conditions-edmonton.aspx>

Rate Schedule	Energy Charge	Demand Charge per KW or KVA per Day	OSS Charge	Operating Reserve
SAS-R	N/A	N/A	N/A	N/A
SAS-SC	N/A	N/A	N/A	N/A
SAS-MC	N/A	N/A	N/A	N/A
SAS-TOU	N/A	N/A	N/A	N/A
SAS-TOUP	N/A	N/A	N/A	N/A
SAS-CS	N/A	N/A	N/A	N/A
SAS-CST	N/A	N/A	N/A	N/A
SAS-DC	N/A	N/A	N/A	N/A
SAS-DGEN	N/A	N/A	N/A	N/A
SAS-SL	N/A	N/A	N/A	N/A
SAS-TL	N/A	N/A	N/A	N/A
SAS-SEL	N/A	N/A	N/A	N/A
SAS-LL	N/A	N/A	N/A	N/A

SHORT-TERM ADJUSTMENT

Rider K - Transmission Charge Deferral Account True-Up Rider ***Effective: July 1, 2023***

- Applies to all electric service throughout the territory served by the Company when a charge or refund is approved by the AUC.
- Current Rider K rates are available on EPCOR's website:
<https://www.epcor.com/products-services/power/rates-tariffs-fees/Pages/power-tariffs-terms-and-conditions-edmonton.aspx>

Rate Schedule	Energy Charge	Demand Charge per KW or KVA per Day	OSS Charge	Operating Reserve
SAS-R	-	N/A	N/A	N/A
SAS-SC	-	N/A	N/A	N/A
SAS-MC	-	N/A	N/A	N/A
SAS-TOU	-	N/A	N/A	N/A
SAS-TOUP	-	N/A	N/A	N/A
SAS-CS	-	N/A	N/A	N/A
SAS-CST	-	N/A	N/A	N/A
SAS-DC	-	N/A	N/A	N/A
SAS-DGEN	-	N/A	N/A	N/A
SAS-SL	-	N/A	N/A	N/A
SAS-TL	-	N/A	N/A	N/A
SAS-SEL	-	N/A	N/A	N/A
SAS-LL	-	N/A	N/A	N/A

**Table 3: EDTI's 2023 System Access Service Rate Schedules
(2023 FINAL RATE)**

Rate Class	Cell Reference	Value	Description
Residential	SAS-R1	\$0.03927	/ kWh of Energy Charge
Commercial/ Industrial Service <50 kVA	SAS-SC1	\$0.04096	/ kWh of Energy Charge
Commercial/ Industrial Service 50 kVA to Less Than 150 kVA	SAS-MC1	\$0.09755	/kVA/day of Capacity Charge
Commercial/ Industrial Service 50 kVA to Less Than 150 kVA	SAS-MC2	\$0.00841	/ kWh of Energy Charge
Commercial/ Industrial Service 50 kVA to Less Than 150 kVA	SAS-MC3	\$0.20587	/kVA/day of Demand Charge
150 to 5000 kVA (Secondary)	SAS-TOU1	\$0.00223	/ kWh of Energy Charge
150 to 5000 kVA (Secondary)	SAS-TOU2	\$0.14275	/kW/day of Capacity Charge
150 to 5000 kVA (Secondary)	SAS-TOU3	\$0.00061	/kW/day of Other System Support Charge
150 to 5000 kVA (Secondary)	SAS-TOU4	5.96%	Operating Reserve Charge (Total Energy x OR% x Pool Price)
151 to 5000 kVA (Secondary)	SAS-TOU5	\$0.28465	/kW/day of Demand Charge
150 to 5000 kVA (Primary)	SAS-TOUP1	\$0.00220	/ kWh of Energy Charge
150 to 5000 kVA (Primary)	SAS-TOUP2	\$0.12371	/kW/day of Capacity Charge
150 to 5000 kVA (Primary)	SAS-TOUP3	\$0.00053	/kW/day of Other System Support Charge
150 to 5000 kVA (Primary)	SAS-TOUP4	5.89%	Operating Reserve Charge (Total Energy x OR% x Pool Price)
151 to 5000 kVA (Primary)	SAS-TOUP5	\$0.26564	/kW/day of Demand Charge
> 5000 kVA	SAS-CS1	\$0.00218	/ kWh of Energy Charge
> 5000 kVA	SAS-CS2	\$0.12542	/kW/day of Capacity Charge
> 5000 kVA	SAS-CS3	\$0.00053	/kW/day of Other System Support Charge
> 5000 kVA	SAS-CS4	5.83%	Operating Reserve Charge (Total Energy x OR% x Pool Price)
> 5000 kVA	SAS-CS5	\$0.29734	/kW/day of Demand Charge
CST	SAS-CST3	\$0.15910	/kW/day of Capacity Charge
CST	SAS-CST4	\$0.00219	/ kWh of Energy Charge
CST	SAS-CST5	5.86%	Operating Reserve Charge (Total Energy x OR% x Pool Price)
CST	SAS-CST6	\$0.00064	/kW/day of Other System Support Charge
CST	SAS-CST7	\$378.77	Daily Charge Multiplied by POD Percentage
CST	SAS-CST8	\$0.21305	/kW/day of Demand Charge
CST21	SAS-CST21-3	\$0.16664	/kW/day of Capacity Charge
CST21	SAS-CST21-4	\$0.00219	/ kWh of Energy Charge
CST21	SAS-CST21-5	5.85%	Operating Reserve Charge (Total Energy x OR% x Pool Price)
CST21	SAS-CST21-6	\$0.00078	/kW/day of Other System Support Charge
CST21	SAS-CST21-7	\$49.47	Daily Charge Multiplied by POD Percentage

Rate Class	Cell Reference	Value	Description
CST21	SAS-CST21-8	\$0.33579	/kW/day of Demand Charge
Direct Connects to AESO	SAS-DC1	Flowthrough	/ kWh of Energy Charge
Direct Connects to AESO	SAS-DC2	Flowthrough	/kW/day of Demand Charge
Direct Connects to AESO	SAS-DC3	Flowthrough	/kW/day of Other System Support Charge
Direct Connects to AESO	SAS-DC4	Flowthrough	Pool Price Charge (Total Energy)
Direct Connects to AESO	SAS-DC5	Flowthrough	Fixed Point of Delivery Daily Charge Multiplied by applicable Substation Fraction
Photo Eye (Street Lights)	SAS-SL1	\$0.24482	/kW/day of Demand Charge
Continuous Operating Load	SAS-TL1	\$0.86302	/kW/day of Demand Charge
Photo Eye (Security Lights)	SAS-SEL1	\$0.23118	/kW/day of Demand Charge
Photo Eye (Lane Lights)	SAS-LL1	\$0.26031	/kW/day of Demand Charge

Table 4: EDTI's 2023 Customer Specific Loss Factor and Operating Reserve Percentage

Rate Class	Cell Reference	CS Loss Factor	SAS-CS4	Description
> 5000 kW - Primary	CS20	0.16%	5.82%	Specific Distribution Loss Factor - CS20
> 5000 kW - Primary	CS21	0.35%	5.83%	Specific Distribution Loss Factor - CS21
> 5000 kW - Primary	CS22	1.35%	5.89%	Specific Distribution Loss Factor - CS22
> 5000 kW - Primary	CS23	0.18%	5.82%	Specific Distribution Loss Factor - CS23
> 5000 kW - Primary	CS24	0.09%	5.82%	Specific Distribution Loss Factor - CS24
> 5000 kW - Primary	CS25	0.20%	5.82%	Specific Distribution Loss Factor - CS25
> 5000 kW - Primary	CS26	1.44%	5.90%	Specific Distribution Loss Factor - CS26
> 5000 kW - Primary	CS27	0.20%	5.82%	Specific Distribution Loss Factor - CS27
> 5000 kW - Primary	CS28	0.43%	5.84%	Specific Distribution Loss Factor - CS28
> 5000 kW - Primary	CS29	0.38%	5.84%	Specific Distribution Loss Factor - CS29
> 5000 kW - Primary	CS30	0.01%	5.81%	Specific Distribution Loss Factor - CS30
> 5000 kW - Primary	CS31	0.18%	5.82%	Specific Distribution Loss Factor - CS31
> 5000 kW - Primary	CS32	0.19%	5.82%	Specific Distribution Loss Factor - CS32
> 5000 kW - Primary	CS33	1.37%	5.89%	Specific Distribution Loss Factor - CS33
> 5000 kW - Primary	CS34	0.10%	5.86%	Specific Distribution Loss Factor - CS34
> 5000 kW - Primary	CS35	0.30%	5.83%	Specific Distribution Loss Factor - CS35
> 5000 kW - Primary	CS37	0.00%	5.81%	Specific Distribution Loss Factor - CS37
> 5000 kW - Primary	CS38	0.12%	5.82%	Specific Distribution Loss Factor - CS38
> 5000 kW - Primary	CS39	0.72%	5.86%	Specific Distribution Loss Factor - CS39
> 5000 kW - Primary	CS40	1.27%	5.89%	Specific Distribution Loss Factor - CS40
> 5000 kW - Primary	CS42	0.57%	5.85%	Specific Distribution Loss Factor - CS42
> 5000 kW - Primary	CS43	0.51%	5.84%	Specific Distribution Loss Factor - CS43

> 5000 kW - Primary	CS44	0.47%	5.84%	Specific Distribution Loss Factor - CS44
> 5000 kW - Primary	CS46	0.57%	5.85%	Specific Distribution Loss Factor - CS46
> 5000 kW - Primary	CS48	0.93%	5.87%	Specific Distribution Loss Factor - CS48
> 5000 kW - Primary	CS49	1.04%	5.87%	Specific Distribution Loss Factor - CS49