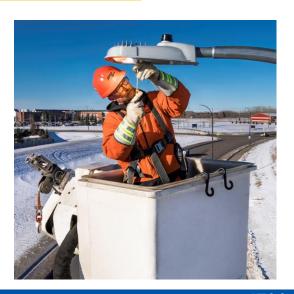


LED CONVERSION MULTIPLIER

- Alberta Utilities Commission (AUC) approved a multiplier rate for the conversion of HPS to LED
- D61B invested streetlights
- LED Conversion Multiplier (LCM) applied in place of a capital contribution
- Contract will be filed with the AUC prior to construction
- Current LCM rate 9.4%



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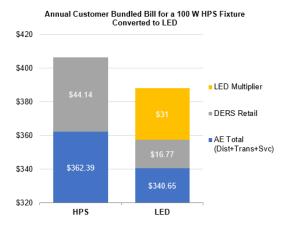
LED CONVERSION MAINTENANCE MULTIPLIER

LED Conversion bill	=	LED Conversion Co Maintenance Cost		
adjustment		Rate D61B Distribution Charge		
Where:				
D61B Fixture Charges	=	\$0.8968/fixture/day * 365 days * 1 fixture		
	=	\$327.33		
LED Capital Conversion			Annualized conversion costs for all fixtures qualifying for LED conversion	
Cost		# of qualifying fixtures		
		~\$1,028,000 / yr	=	\$50.43 per fixture per
	=	20,379 Fixtures		year
LED Maintenance Savings	=	Annualized cost savings for all fixtures qualifying for LED conversion		
		# of	qualify	ying fixtures
	=	~\$398,000 / yr	_ =	\$19.51 per fixture per
		20,379 Fixtures		year
Therefore:				
Therefore:	=	\$50.43 - \$19.51	=	9.4%

ATCO's calculation is based on the eligible 20,379 HPS D61B fixtures to be converted to LED technology.

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MULTIPLIER CHANGE IN BILLING



- HPS annual total is \$406.53
- LED annual total (with Multiplier) is \$388.42
- Annual difference is -\$18.11

Based on 100W HPS and 38W LED Invested Street Light Rate. Wire charges based on current Distribution Rates (effective January 1, 2021) plus current approved Rider B, Rider G and Rider S (effective August 2021). Retailer charges are based on retailer energy rate of 10.078 c/kWh(DERS RRO effective September 2021)

*This year depiction is assuming the retailer energy rate stays at the above rate for a year. *All values used in the graphs have been rounded.

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STREETLIGHT INVENTORY IN DRUMHELLER AVAILABLE FOR CONVERSION

HPS WATTAGE	LED WATTAGE	INVESTED STREET LIGHTS
100	38	717
150	73	185
250	106	113

Estimated impact to billing for conversion of invested streetlights

Summary

HPS W	LED W	HPS \$	LED \$	Difference per Light \$	# of Lights	Totals savings \$
100	38	\$ 406.53	\$ 388.20	\$ (18.33)	717	\$13,142.61
150	73	\$ 446.14	\$ 415.92	\$ (30.22)	185	\$5,590.70
250	106	\$ 525.34	\$ 442.06	\$ (83.28)	113	\$9,410.64
				\$		
				Total Difference		\$28,143.95

· This estimated annual bill impact is based on RRO

ATCO

PROGRAM AVAILABILITY

- Approximately 20,000 invested street lights
- Majority must be converted to LED
- AUC approval is required to remove multiplier
- After multiplier is removed, invested street light rate will be adjusted to reflect any remaining capital costs and maintenance savings

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QUESTIONS







Streetlights

- Streetlights within your community primarily are:
 - Built within the scope of a development and turned over to the community to pay monthly distribution charges.
 - Owned by ATCO
 - Street light options are outlined in the Franchise Agreement between your community and ATCO.
 - Non-Invested Street light Rate (61E)
 - Invested Street light Rate (61B)
 - All rates are listed at

www.atco.com



ATCO

Non-Invested Street Light Rate (61E)

- For lighting fixtures installed, owned and maintained by ATCO
- The <u>customer</u> is responsible for the <u>full installation cost</u>
- The <u>customer</u> is responsible for the <u>full cost of replacement</u>
- Includes maintenance only
- The community does <u>no</u>t receive any Company Investment



ATCO

Invested Street Light Rate (61B)

- For lighting fixtures installed, owned and maintained by ATCO
- The <u>customer</u> is responsible for the <u>full installation cost</u>
- ATCO is responsible for the <u>full cost of replacement</u> and maintenance.

 A Multiplier may be applied to the fixture charge for customers requesting lighting fixtures which incur higher than average lighting costs.

 The community <u>receives</u> Company <u>investment</u>, as per the AUC approved investment rate.

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Street Light Rate Option Comparisons

Rate Option	Ownership & Maintenance	Installation Cost	Replacement Cost	Monthly Wires Cost
Invested 61B	ATCO Electric	ATCO Electric (up to a max. \$2,654 per light)	ATCO Electric	\$31.24
Non-invested 61E	ATCO Electric	Customer	Customer	\$18.26

Based on a 100 Watt HPS. Wires charges based on current approved 2021 base rates plus approved Rider B, Rider G and Rider S (Effective Sept 01, 2021). Rider A is not included in the monthly wires cost.

s ATCO

Current Monthly Rates Per Light

Wattage	Invested Option 61B	Non-Invested Option 61E
100W HPS	\$31.24	\$18.26
150W HPS	\$32.74	\$19.76
250W HPS	\$35.72	\$22.74
400W HPS	\$40.22	\$27.24
43W LED	\$29.53	\$16.55
88W LED	\$30.87	\$17.89
161W LED	\$33.06	\$20.09
Totals		

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Convert Non-Invested to Invested

Analysis of converting Non-Invested Lights to Invested

#/Wattage of Non- Invested	Monthly Charges per light as Invested	Difference in monthly charges (Non-Invested to Invested)	Available Investment per Light \$884.67
# 547/ 100W HPS	*\$ 31.24	*\$12.98	\$ 483,914.49
# 115/ 150W HPS	*\$ 32.74	*\$12.98	\$ 101,737.05
# 89/ 250W HPS	*\$ 35.72	*\$12.98	\$ 78,735.63
# 7/ 400W HPS	*\$ 40.22	*\$12.98	\$ 6,192.69
# 1/43W LED	*\$ 29.53	*\$12.98	\$ 884.67
# 1/88W LED	*\$ 30.87	*\$12.98	\$ 884.67
# 3/161W LED	*\$ 33.06	*\$12.98	\$ 2,654.01
Total Lights 763	Total Invested \$24,473.58	Difference \$9,903.74	Investment \$675,003.21

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Review

- Drumheller has 763 Non-Invested 61E streetlights
 - Approx. \$ 24,473.00 /month in distribution charges
 - Approx. \$ 4,578,000.00 in future replacement costs
- Future state of all Invested 61B streetlights
 - Approx. \$ 34,377.00 /month in distribution charges
 - An investment provided to you of \$ 675,003.00
 - No future capital replacement cost
 - Available Multiplier rate option to convert HPS lights to LED technology

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