



**AGENDA ITEM EXECUTIVE SUMMARY**

Agenda Item number: 3.a

Title: Electric Reliability Report – Information Only

Presenter: Tom Bruhl

Meeting: Government Services Committee

Date: June 25, 2018

Proposed Cost: \$

Budgeted Amount: \$

Not Budgeted:

**Executive Summary** *(if not budgeted please explain):*

For Information Only.

**Attachments** *(please list):*

\* May 2018 Outage Report

\* May 2018 Streetlight Repair Report

**Recommendation/Suggested Action** *(briefly explain):*

For information only.

City of St. Charles  
May 2018 Outages

OUTAGE No.	DATE	TIME OFF	TIME ON (Min)	AREA AFFECTED	CIRCUIT No.	CAUSE/RESPONSE	NO. OF CUST.	OUTAGE MINUTES	MAJOR CATEGORY	SUB CATEGORY
1	5/1/2018	10:00 AM	120	Oak St., 12th St.	214	SCHEDULED OUTAGE. Cut over customers to new poles and transformers.	2	240	Scheduled	SCMEU
2	5/14/2018	10:10 AM	0	Davis School, Horne St., and Fellows St., SW side of town, Prairie to Grey, 3rd St. to 8th St.	624	Instantaneous breaker operation.	783	0	Tree	Small Branch
2	5/14/2018	10:10 AM	21	Horne to Fellows, 6th St. to 7th St.	624	No power. Tree behind 1016 S. 7th St. Removed tree, checked wire, and re-fused line.	70	1,470	Tree	Small Branch
2	5/14/2018	10:53 AM	43	Westfield, Grey, 7th St.	624	No power. Tree in backyard on 7th St. blew fuse on Horne St.	54	2,322	Tree	Small Branch
3	5/21/2018	6:05 PM	0	Illinois Ave., 38th Ave., E. Main St.	511	Instantaneous breaker operation. No sustained outages. No action taken. Patrolled circuit the following day with no cause found.	98	0	Unknown	12.47-kV
4	5/22/2018	5:20 AM	22	East side of 1st St. from Main St. to Illinois St.	312	Hooked up new fire service / turned power back on.	7	154	Scheduled	SCMEU
5	5/23/2018	8:23 AM	0	Ohio Ave., between Kirk Rd. & Kautz Rd., Illinois Ave. to Ohio Ave.	536	Instantaneous breaker re-close. Switchgear at Kirk Rd. and Ohio Ave. flashed.	13	0	Equipment	Switch
5	5/23/2018	8:23 AM	157	Omron, 3705 Ohio Ave.	536	Blown internal fuse in transformer from inrush. Replaced fuses and fuse holders.	1	157	Equipment	Fuse
6	5/25/2018	10:31 AM	0	Parts of Charlestown mall, plus area bounded by Smith Rd. to the north, east boundary of the City on the east, Main St. on the south, and 38th Ave. on the west.	711	Investigated transformers and switchgears looking for evidence of what might have caused the outage. Found evidence that blackbirds had gotten into the equipment.	331	0	Animal	Bird
7	5/26/2018	3:50 AM	0	From Main St. to Red Haw Ln., between Randall Rd. & 9th St.	222	Outage - Unknown cause. Automatic reclose.	629	0	Unknown	12.47-kV
7	5/26/2018	3:50 AM	0	Between 10th St. & Randall Rd., from Dean St. to Prairie St.	214	Blown lightning arrester. Automatic reclose.	934	0	Equipment	Arrester
7	5/26/2018	3:50 AM	120	Between Oak St. & Prairie St., from 14th St. to 19th St.	214	Blown lightning arrester. Replaced arrester and restored power.	85	10,200	Equipment	Arrester
8	5/26/2018	8:20 PM	160	1820, 1830, 1900 Wallace Ave.	512	Transformer failure caused loop fuse to blow. Switched loop around to isolate bad transformer.	30	4,800	Equipment	Fuse
8	5/26/2018	8:20 PM	402	1820, 1830 Wallace Ave.	512	Transformer failure. Replaced transformer and restored power.	3	1,206	Equipment	Fuse
8	5/26/2018	8:20:00 PM / 8:25 PM / 10:53 PM	0	Wallace Ave. and south to Larson Ave.	512	Transformer failure. Caused automatic reclose.	250	0	Equipment	Fuse
						<b>Total of Interrupted Minutes</b>		<b>20,549</b>		
						<b>Total SAIDI*</b>	<b>1.311</b>			
						<b>Total of ComEd Interrupted Minutes</b>		<b>0</b>		
						<b>Total SAIDI without ComEd</b>	<b>1.311</b>			
						<b>*System Average Interruption Duration Index (SAIDI)</b>				

## Streetlight Repair Report

Expectation: Streetlights will be repaired within 10 days of notification

### Streetlight Repair Statistics

Fiscal Year	Number of Lights Repaired	Average Days to Repair
2018	801	5.3
<b>2019</b>		
Month Light Was Repaired	Number of Lights Repaired	Average Days to Repair
May	66	4.4
June		
July		
August		
September		
October		
November		
December		
January		
February		
March		
April		

**May Notes:**

Multiple outages reported on Tyler Rd due to cable hit from CATV contractor. Repairs were made in less than 10 days.