

 <b>ST. CHARLES</b> <small>S I N C E 1 8 3 4</small>	<b>AGENDA ITEM EXECUTIVE SUMMARY</b>												
	Title:		Electric Reliability Report – Information Only										
	Presenter:		Tom Bruhl										
<i>Please check appropriate box:</i>													
	Government Operations		X	Government Services 05.28.13									
	Planning & Development			City Council									
	Public Hearing												
<table border="1" style="width: 100%;"> <tr> <td>Estimated Cost:</td> <td>\$</td> <td>Budgeted:</td> <td>YES</td> <td></td> <td>NO</td> <td></td> </tr> </table>							Estimated Cost:	\$	Budgeted:	YES		NO	
Estimated Cost:	\$	Budgeted:	YES		NO								
If NO, please explain how item will be funded:													
<b>Executive Summary:</b>													
For information only.													
<b>Attachments:</b> <i>(please list)</i>													
April 2013 Outage Report.													
<b>Recommendation / Suggested Action</b> <i>(briefly explain):</i>													
For information only.													
<i>For office use only:</i>		<i>Agenda Item Number: 3.a</i>											

## St Charles Municipal Electric Utility

## MONTHLY OUTAGE REPORT

General Information				Cause		Time & Duration			
#	Date	S/U	Circuit, Address/Location	Description	#	Ints	T off	T on	Mins
1	4/5/2013	U	311, 1619 Lucylle Ave.	Service, Equipment Failure	1	1	4/5/13 1:38 PM	4/5/13 2:38 PM	60
2	4/10/2013	U	56931, SW Quadrant	L56931, Breaker operation during storm	0	1	4/10/13 7:20 AM	4/10/13 7:20 AM	0
3	4/11/2013	U	713, Stirrup Cup/Aintree	Cable, Equipment Failure	2	1	4/11/13 7:24 AM	4/11/13 8:04 AM	0
4	4/11/2013	U	713, Stirrup Cup/Aintree	Cable, Equipment Failure, multistep restoration using switching	2	1	4/11/13 7:24 AM	4/11/13 8:04 AM	40
5	4/11/2013	U	713, Aintree	Cable, Equipment Failure, multistep restoration	2	1	4/11/13 7:24 AM	4/11/13 8:14 AM	50
6	4/18/2013	U	13150, All four quadrants impacted	L13510, ComEd outage due to lightning during storm	0	1	4/18/13 1:39 AM	4/18/13 1:39 AM	0
7	4/20/2013	U	624, 1107 S. 10th St.	Service, Equipment Failure	1	1	4/20/13 9:30 AM	4/20/13 12:00 PM	150
8	4/22/2013	U	515, SE quad	Dig In, Archon hit primary cable	10	1	4/22/13 1:02 PM	4/22/13 1:02 PM	0
9	4/22/2013	U	515, Rita, Jobe, South Tyler, Jewel	Dig In, Archon hit primary cable	10	1	4/22/13 1:02 PM	4/22/13 1:39 PM	37
10	4/25/2013	U	311, 220 & 227 Ruth Ave.	Dig In, Fence post caused secondary main to burn	2	1	4/25/13 4:45 AM	4/25/13 6:00 AM	75
11	4/26/2013	S	311, 217/220 Ruth Ave.	SCMEU, Scheduled outage to repair secondary	2	1	4/26/13 9:00 AM	4/26/13 11:00 AM	120
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S/U - Scheduled or Unscheduled

Ints - # of Interruptions

Long - &gt;1 min; Short - &lt;1 min

Cause # - see table on page 3

**April 2013**

[illegible]

S/U - Scheduled or Unscheduled  
Ints - # of Interruptions  
Long - >1 min; Short - <1 min  
Cause # - see table on page 3

<b>Total Customers this Month</b>	<b>15,550</b>	<b>Days of Month</b>
<b>Total Customer Minutes this Month</b>	<b>671,760,000</b>	<b>30</b>

Outage Totals			
		This Month	This Month Last Year
<b>Unscheduled Outages</b>			
Long	# Outages	6	5
	# Customers Out	110	36
	# Minutes Out	412	565
	# Customer Minutes Out	4,400	5605
	# Within City System	6	5
	# Supply to City Minutes	0	0
Short	# Outages (Blinks)	4	4
	# Customers Affected	7,147	7301
	# Within City System	2	1
	# Supply to City Minutes	0	0
<b>Scheduled Outages</b>			
Long	# Outages	0	8
	# Customers Out	0	75
	# Minutes Out	0	481
	# Customer Minutes Out	0	1945
	# Within City System	0	8
	# Supply to City Minutes	0	0
Short	# Outages (Blinks)	0	0
	# Customers Affected	0	0
	# Within City System	0	0
	# Supply to City Minutes	0	0
<b>Totals</b>			
Total Long Outages		6	13
Total Short Outages (Blinks)		4	4
Total Customers Out (Long)		110	111
Total Customers Affected (Short- Blinks)		7,147	7301
Total Customer Minutes Out		4,400	7550
Total Outages Within City System		6	13
Total Outages in Supply to City		2	3

Number of Outages (by Cause)					
Cause #	Description	Total This Month	This Month Last Year	Rolling AT	% AT
0	Supply to City	2	3	19	13%
1	Overhead Equipment Failure	2	1	17	11%
2	Underground Equipment Failure	5	1	20	13%
3	Weather	0	1	33	22%
4	Wildlife	0	0	9	6%
5	Trees	0	0	13	9%
6	Substation	0	0	0	0%
7	Human	0	0	0	0%
8	Other	0	8	30	20%
9	Unknown	0	0	0	0%
10	Vehicle/Dig Ins/Caused by Others	2	2	9	6%
Total		11	16	150	

12 Month Outage Statistics		
Index	As of This Month	As of This Month Last Year
ASAI (%)	99.9797	99.9964
CAIDI (Long) (min)	83.09	24.20
SAIDI (Long) (min)	8.90	1.56
SAIFI (Long) (ints/tot cust)	0.11	0.06
SAIFI (Short) (ints/tot cust)	0.24	0.41

ASAI - Average Service Availability Index  
(customer minutes available/total customer minutes, as a %)

CAIDI - Customer Average Interruption Duration Index  
(average minutes interrupted per interrupted customer)

SAIDI - System Average Interruption Duration Index  
(average minutes interrupted per customer for all customers)

SAIFI (Long) - System Average Interruption Frequency Index  
(# of long interruptions per customer for all customers)

SAIFI (Short) - System Average Interruption Frequency Index  
(# of short interruptions per customer for all customers)

S/U - Scheduled or Unscheduled

Ints - # of Interruptions

Long - >1 min; Short - <1 min

Cause # - see table on page 3