

**COMMONWEALTH OF KENTUCKY**

**BEFORE THE PUBLIC SERVICE COMMISSION**

**In the Matter of:**

<b>ELECTRONIC APPLICATION OF JACKSON</b>	)	
<b>PURCHASE ENERGY CORPORATION FOR</b>	)	<b>CASE NO.</b>
<b>GENERAL ADJUSTMENT OF RATES</b>	)	<b>2021-00358</b>
<b>AND OTHER GENERAL RELIEF</b>	)	

**RESPONSES TO ATTORNEY GENERAL'S SUPPLEMENTAL  
REQUEST FOR INFORMATION TO JACKSON PURCHASE ENERGY  
CORPORATION DATED DECEMBER 14, 2021**

Filed: January 3, 2022

**COMMONWEALTH OF KENTUCKY**  
**BEFORE THE PUBLIC SERVICE COMMISSION**

In the Matter of:

THE ELECTRONIC APPLICATION OF )  
JACKSON PURCHASE ENERGY )  
CORPORATION FOR A GENERAL )  
ADJUSTMENT OF RATES AND OTHER )  
GENERAL RELIEF )

Case No. 2021-00358

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**VERIFICATION OF GREG GRISSOM**

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COMMONWEALTH OF KENTUCKY )  
  )  
COUNTY OF McCracken )

Greg Grissom, President and Chief Executive Officer of Jackson Purchase Energy Corporation, being duly sworn, states that he has supervised the preparation of certain responses to the Attorney General's Supplemental Data Requests in the above-referenced case and that the matters and things set forth therein are true and accurate to the best of his knowledge, information and belief, formed after reasonable inquiry.

  
\_\_\_\_\_  
Greg Grissom

The foregoing Verification was signed, acknowledged and sworn to before me this 16th day of December, 2021, by Greg Grissom.

  
\_\_\_\_\_  
Commission expiration: 8/25/2022



COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

THE ELECTRONIC APPLICATION OF )  
JACKSON PURCHASE ENERGY )  
CORPORATION FOR A GENERAL )  
ADJUSTMENT OF RATES AND OTHER )  
GENERAL RELIEF )

Case No. 2021-00358

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VERIFICATION OF JEFFREY R. WILLIAMS

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COMMONWEALTH OF KENTUCKY )  
COUNTY OF McCracken )

Jeffrey R. Williams, CFO-VP, Finance and Accounting of Jackson Purchase Energy Corporation, being duly sworn, states that he has supervised the preparation of certain responses to the Attorney General's Supplemental Request for Information in the above-referenced case and that the matters and things set forth therein are true and accurate to the best of his knowledge, information and belief, formed after reasonable inquiry.

  
\_\_\_\_\_  
Jeffrey R. Williams

The foregoing Verification was signed, acknowledged and sworn to before me this 16<sup>th</sup> day of December, 2021, by Jeffrey R. Williams.

  
\_\_\_\_\_  
Commission expiration: 8/25/2022



COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

THE ELECTRONIC APPLICATION OF )  
JACKSON PURCHASE ENERGY )  
CORPORATION FOR A GENERAL )  
ADJUSTMENT OF RATES AND OTHER )  
GENERAL RELIEF )

Case No. 2021-00358

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VERIFICATION OF JOHN WOLFRAM

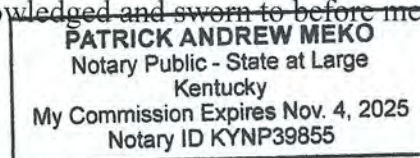
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COMMONWEALTH OF KENTUCKY )  
 )  
COUNTY OF JEFFERSON )

John Wolfram, being duly sworn, states that he has supervised the preparation of certain responses to the Attorney General's Supplemental Request for Information in the above-referenced case and that the matters and things set forth therein are true and accurate to the best of his knowledge, information and belief, formed after reasonable inquiry.

  
\_\_\_\_\_  
John Wolfram

The foregoing Verification was signed, acknowledged and sworn to before me this 17<sup>th</sup> day of December, 2021, by John Wolfram.



Commission expiration: November 4, 2025

**JACKSON PURCHASE ENERGY CORPORATION**  
**PSC CASE NO. 2021-00358**  
**SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG'S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21**  
**REQUEST 1**

**RESPONSIBLE PERSON:**           **John Wolfram**

**COMPANY:**                       **Jackson Purchase Energy Corporation**

**Request 1.**           Provide all reasons why the Company chose a historic test year instead of a forecast test year.

**Response 1.**           The Company chose a historic test year instead of a forecast test year for several reasons. First, the historic test year data was readily available. Second, the last rate filing used a historic test year, and doing so again provided economies of scale for the revenue requirement analysis. Third, the cooperative is not aware of any distribution cooperative in the Commonwealth that has elected to use a forecast test period in a rate case, so the cooperative considered the use of a historic test year to be a conventional, non-controversial practice.

**JACKSON PURCHASE ENERGY CORPORATION  
PSC CASE NO. 2021-00358  
SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG'S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21  
REQUEST 2**

**RESPONSIBLE PERSON: John Wolfram and Jeff Williams**

**COMPANY: Jackson Purchase Energy Corporation**

**Request 2.** Indicate specifically to what extent the Company believes the selection of a historic test year limits its ability to propose post-test year adjustments, if at all. If the Company believes that there are limitations, then identify each such limitation on post-test year adjustments (address scope, timing, and calculation) and the basis for each such limitation. If the Company believes there are no such limitations, then so state and provide the basis for this conclusion.

**Response 2.** The Company does not believe that the selection of a historic test year limits its ability to propose post-test year adjustments. The Company believes it may propose any pro forma adjustments to the historic test period that it considers known and measurable, that would result in fair, just and reasonable rates, and/or that are otherwise consistent with Commission practice and precedent. This basis for this conclusion is our understanding of how pro forma adjustments are addressed in the statute, regulation, and prior Commission orders. For example, in PSC Case No. 2011-00036, *Application of Big*

*Rivers Electric Corporation for a General Adjustment in Rates*, the Commission confirmed this position by referencing “...the longstanding standard by which we review post test-year adjustments in historical test-year rate cases...” (Order, 11/17/11, at 13). The longstanding standard is whether the adjustment is based upon “known and measurable” information. Elsewhere in the same Order the Commission stated that post test-year adjustments are “rarely accepted due to their inability to meet the requisite evidentiary standard [known and measurable].” (Order, 11/17/11, at 13). In the cited case *Big Rivers Electric* was promoting an adjustment for inflation related to maintenance expense for a period of four years beyond the test year, to which an Intervenor, Kentucky Industrial Utility Customers (“KIUC”), objected as being improper because it was not known and measurable. The Commission agreed finding that *Big Rivers’* proposed inflation adjustment violated the known and measurable standard because it was based on budgets or forecasts of future costs that extended four years beyond the end of the test year. The *Big Rivers* case stands for the proposition that as long as there is sufficiently reliable historical information upon which to base a post test-year adjustment, the Commission can and will consider it; but if it is not, it will fail. When faced with such an adjustment it is within the purview of the Commission, on a case-by-case and fact-by-fact basis, to determine if it is sufficiently grounded on historical information. As the Applicant in this case, Jackson Purchase carries the burden of convincing the Commission that any such proposed adjustment is based on known and measurable historical information. This analysis is consistent with what the Commission has done for decades in virtually every

rate adjustment proceeding before it. Moreover, it is consistent with 807 KAR 5:001, Section 16(5), which provides that a utility may request pro forma adjustments for known and measurable changes to ensure the collection of fair, just, and reasonable rates as permitted by KRS 278.030(1).



**JACKSON PURCHASE ENERGY CORPORATION  
PSC CASE NO. 2021-00358  
SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG'S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21  
REQUEST 3**

**RESPONSIBLE PERSON: Jeff Williams**

**COMPANY: Jackson Purchase Energy Corporation**

**Request 3.** Provide a copy of the trial balance for November 2021 and each subsequent month as they are available throughout the pendency of this proceeding.

**Response 3.** Please refer to Jackson Purchase's response to AG 1-3 and the supplemental response to AG 1-3. Jackson Purchase will continue to update AG 1-3 throughout this proceeding.

**JACKSON PURCHASE ENERGY CORPORATION  
PSC CASE NO. 2021-00358  
SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG'S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21**

**REQUEST 4**

**RESPONSIBLE PERSON:** Jeff Williams

**COMPANY:** Jackson Purchase Energy Corporation

**Request 4.** Refer to the attachment to the response to AG 1-8, page 4 of 4. Provide the monthly calculations of short-term interest expense and long-term interest expense budgeted in 2021. Provide the underlying schedule(s) of each short-term borrowing/notes payable and each long-term debt issue outstanding, principal, interest rate and interest expense for each month in live Excel spreadsheet format with all formulas intact.

**Response 4.** There is no underlying schedule for short-term interest budget, nor long-term debt budget. Short-term interest is a component of Interest expense other - line 18 on the schedule accompanying AG 1-8 part 4 of 4. The assumption was approximately \$2.5 million would be owed, on average, for 5 months at 2.5% or \$26,000 for the year. This should have been budgeted in only the first 5 months but was spread due to the immateriality. Finance staff prepared budgeted amounts for RUS, CFC and CoBank interest on long-term debt and there is no backup worksheet.

For the long-term debt, please refer to Jackson Purchase's response to AG 1-4 which shows the long-term balance and interest rate by month. For each month's interest expense, please refer to Jackson Purchase's supplemental response to AG 1-3 which shows monthly interest expense for all short and long-term loans. Please refer to accounts 431.0 and 431.01 for CoBank and CFC short-term interest expense. Also refer to accounts 427.105, 427.5, 427.6 for interest on long-term debt for RUS, CFC and CoBank, respectively. For capitalized interest, please refer to Jackson Purchase's response to AG 2-18.

**JACKSON PURCHASE ENERGY CORPORATION**  
**PSC CASE NO. 2021-00358**  
**SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG'S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21**

**REQUEST 5**

**RESPONSIBLE PERSON:**           **Jeff Williams**

**COMPANY:**                       **Jackson Purchase Energy Corporation**

**Request 5.**           Refer to the response to AG 1-28(b). Provide the source information by month for January 2019 through the most recent month for which actual information is available, as well as the annual amounts for each year 2019 and 2020 and the twelve months ending with the same ending month as the Company's "proforma year," the calculations of the proforma hourly rates, and a copy of the underlying source documents used for this purpose.

**Response 5.**           Please see attached information by month from January 2019 to the current month available. The annual amounts, or year-end amounts would be December of each year. The average wage in April 2021, as shown in Jackson Purchase's response to AG 1- 28(b) is where the average wage comes from in the pro forma adjustment for the pro forma year. There are no calculations as this data is pulled from Jackson Purchase's payroll system and keyed into this spreadsheet.

ATTACHMENTS  
ARE EXCEL  
SPREADSHEETS  
AND UPLOADED  
SEPARATELY

**JACKSON PURCHASE ENERGY CORPORATION  
PSC CASE NO. 2021-00358  
SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG'S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21**

**REQUEST 6**

**RESPONSIBLE PERSON: John Wolfram**

**COMPANY: Jackson Purchase Energy Corporation**

**Request 6.** Refer to the attachment to the response to AG 1-42 pages 4-5 wherein it shows the average revenue per kWh for the large commercial class in 2019 of \$0.097. Compare this average revenue per kWh to the \$0.9295 used in the revised Schedule 1.11 YearEndCust adjustment for this class shown in cell I36, reconcile the calculations of the two different results, and indicate which average revenue per kWh is correct and describe why it is correct and the other is incorrect. Provide all support relied on for the calculations and this response, including all Excel spreadsheets in live format with all formulas intact.

**Response 6.** The information in response to AG 1-42 is the Key Ratio Trend Analysis (“KRTA”) performed by the National Rural Utilities Cooperative Finance Corporation (“CFC”). The calculation in Reference Schedule 1.11 was performed by me and is based on member billing information provided directly to me by the cooperative. I am not aware of how CFC performed the calculations in the KRTA and thus can neither

attest to the accuracy of those values nor reconcile the KRTA to Reference Schedule 1.11. For the purposes of this rate filing, and the proposed revenue requirement, cost of service study, and proposed rates, the information in Reference Schedule 1.11 is consistent with all other billing data used to develop the proposed rates, is correct, and should be relied upon by the Commission in its rate determination in this case.

**JACKSON PURCHASE ENERGY CORPORATION  
PSC CASE NO. 2021-00358  
SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG'S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21  
REQUEST 7**

**RESPONSIBLE PERSON: Jeff Williams**

**COMPANY: Jackson Purchase Energy Corporation**

**Request 7.** Refer to the attachment to the response to AG 1-42 page 9 wherein it shows the average wage rate per hour in 2019 of \$37.77. The average wage rate per hour in 2019 on Schedule 1.12 is \$36.90, calculation as cell E21/cell C21. Reconcile the calculations of the two different results, and indicate which average wage rate per hour in 2019 is correct, describe why it is correct and why the other is incorrect. Provide all support relied on for the calculations and this response, including all Excel spreadsheets in live format with all formulas intact. If necessary, provide a revised Schedule 1.12 if there are errors in the hours and/or payroll dollars in the test year on this schedule.

**Response 7.** As noted in the initial response, the calculation referenced of \$37.77 is a calculation provided by CFC, not Jackson Purchase. It seems that CFC possibly excludes other hours in its calculation, but Jackson Purchase does not have the numbers CFC used in its calculation. Because of this, Jackson Purchase cannot provide the reconciliation requested. For the pro-forma adjustment in the initial filing, Schedule 1.12,



Jackson Purchase uses a report out of its software which is by pay date, which might vary very slightly with the GL amount. The Schedule 1.12 of the initial filing looks at both years (i.e., the test year and the pro-forma year) in this matter (by a pay date report) and the adjustment is therefore accurate.

**JACKSON PURCHASE ENERGY COOPERATIVE**  
**PSC CASE NO. 2021-00358**  
**SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG'S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21**

**REQUEST 8**

**RESPONSIBLE PERSON: Jeff Williams**

**COMPANY: Jackson Purchase Energy Corporation**

**Request 8.** Provide the total wages and salaries for calendar years 2019 and 2020 and the twelve months ending November 2021. Separate the total wages and salaries for each of these periods into the amounts expensed and the amounts capitalized.

**Response 8.** Please refer to Jackson Purchase's response to AG 1 – 13(b) and more specifically to each year's Form 7 as requested in this data request. Please refer to page 3 and part I which shows this information. Total wages and salaries for 12 months ending November 2021 is \$6,397,974, of which \$3,372,803 was expensed and \$1,665,278 was capitalized.

**JACKSON PURCHASE ENERGY CORPORATION**  
**PSC CASE NO. 2021-00358**  
**SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG’S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21**  
**REQUEST 9**

**RESPONSIBLE PERSON:** Jeff Williams

**COMPANY:** Jackson Purchase Energy Corporation

**Request 9.** Provide the total wages and salaries for the last pay periods in calendar years 2019 and 2020 and in November 2021. Separate the total wages and salaries for each of these pay periods into the amounts expensed and the amounts capitalized.

**Response 9.** Please see schedule below:

	<b>Capitalized</b>	<b>Expensed</b>	<b>Other</b>	<b>Total</b>
<b>2019</b>	46,628.49	65,958.08	3,511.32	116,097.89
<b>2020</b>	37,317.57	65,886.24	3,674.99	106,878.80
<b>2021</b>	43,744.03	74,933.46	4,408.60	123,086.09

**JACKSON PURCHASE ENERGY CORPORATION**  
**PSC CASE NO. 2021-00358**  
**SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG’S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21**  
**REQUEST 10**

**RESPONSIBLE PERSON:** Jeff Williams

**COMPANY:** Jackson Purchase Energy Corporation

**Request 10.** Provide the full-time equivalent employees (“FTEs”) at the end of each month from January 2017 through November 2021.

**Response 10.** Please see below:

<b>FTE</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>
January	64	66	66	70	67
February	64	66	66	70	67
March	64	65	68	69	70
April	64	66	68	69	70
May	64	64	69	68	68
June	64	64	69	69	68
July	63	64	74	69	68
August	63	64	75	69	67
September	64	66	73	70	67
October	64	66	70	69	66
November	63	66	70	69	66
December	65	65	70	68	

**JACKSON PURCHASE ENERGY CORPORATION  
PSC CASE NO. 2021-00358  
SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG'S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21**

**REQUEST 11**

**RESPONSIBLE PERSON:**           **Jeff Williams**

**COMPANY:**                       **Jackson Purchase Energy Corporation**

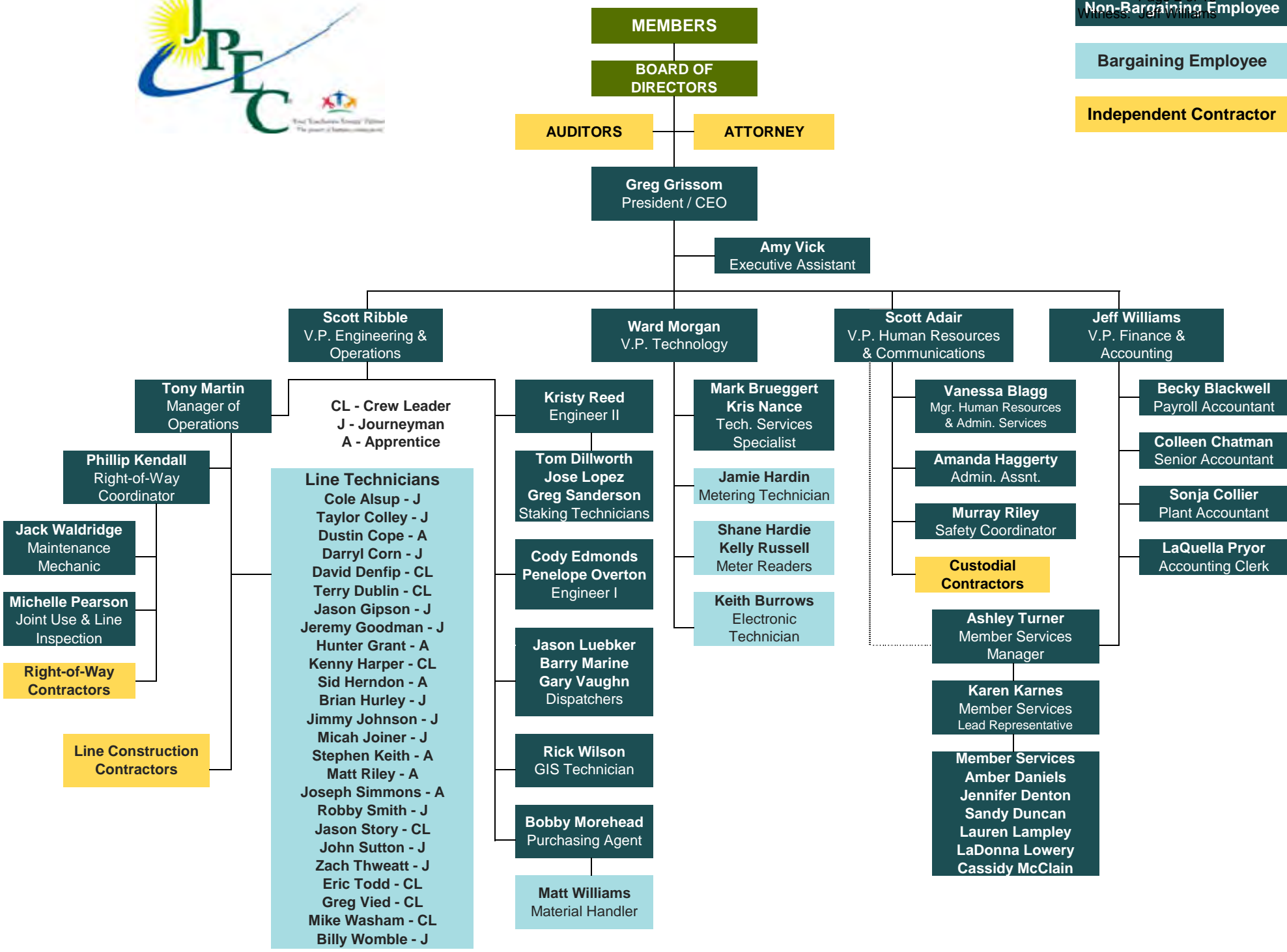
**Request 11.**           Provide an organization chart that shows each employee position along with the names of each supervisory position by month from January 2019 through the most recent month for which actual information is available. Indicate on each monthly chart each position that is filled (F) or unfilled (U).

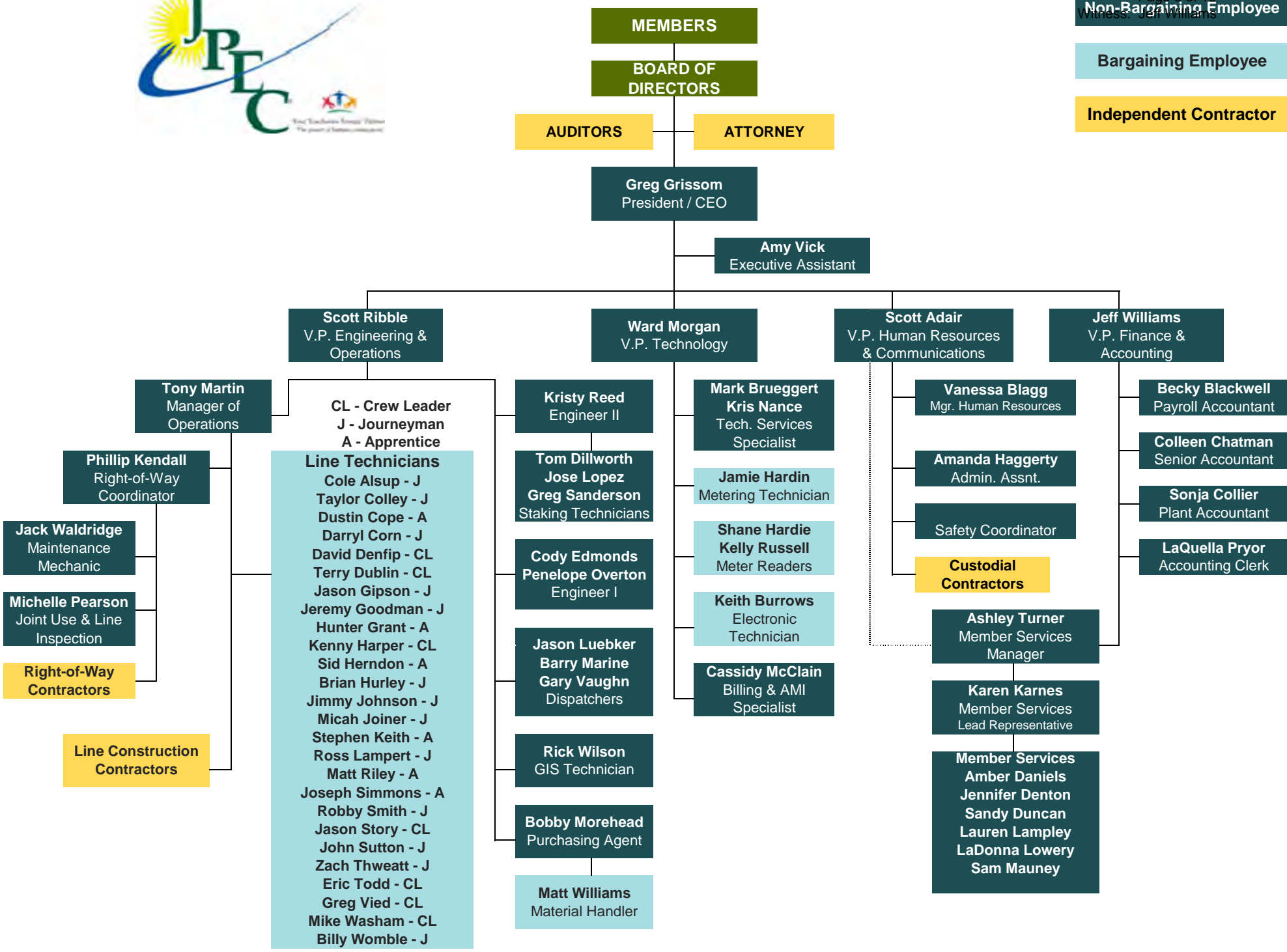
**Response 11.**           Jackson Purchase does not keep nor maintain an org chart for each month. Please see attached the org charts it does have. The positions filled are listed with names. Unfilled are either not listed or no names are included.

Page 2 of 15  
 Witness: Jeff Williams  
**Non-Bargaining Employee**

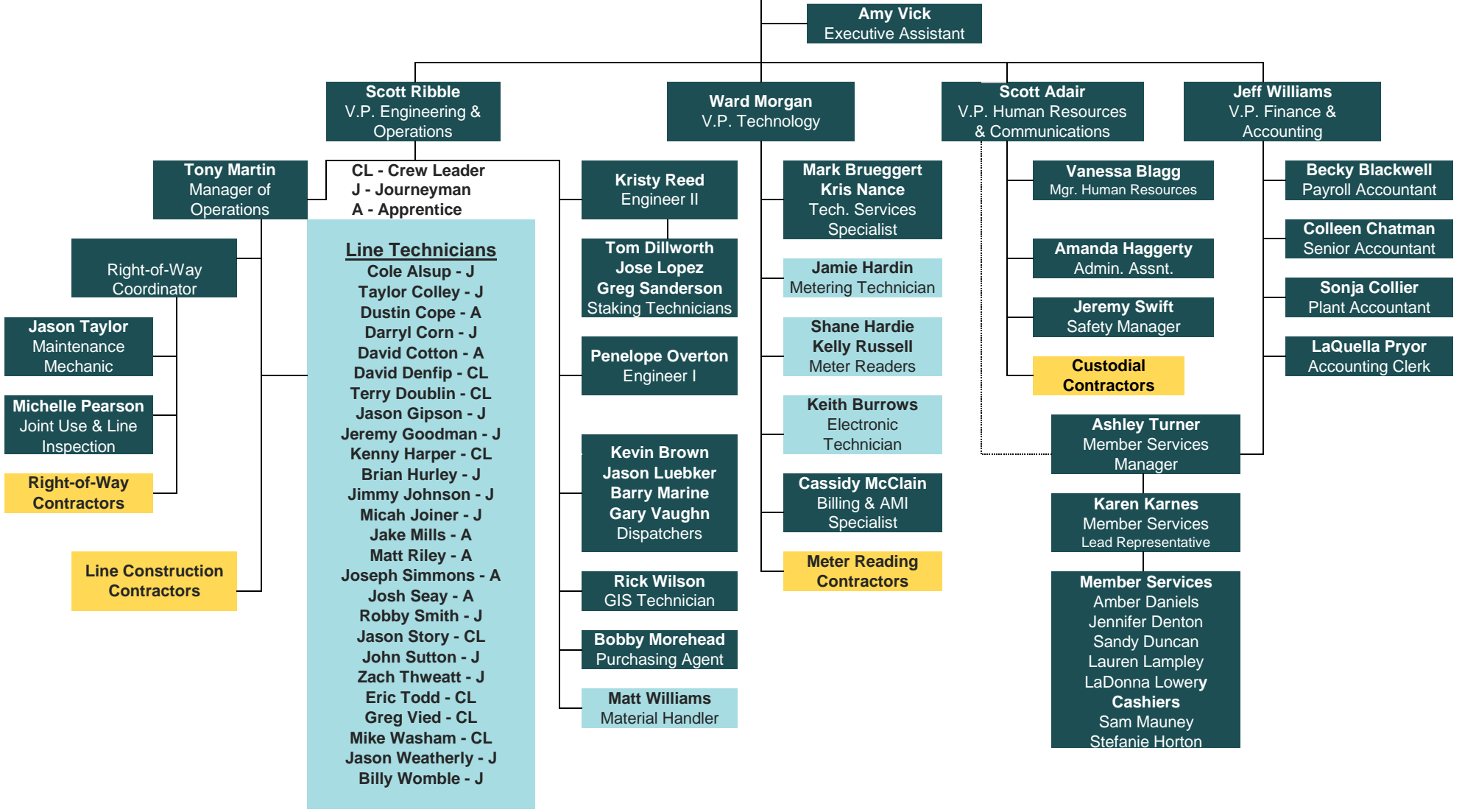
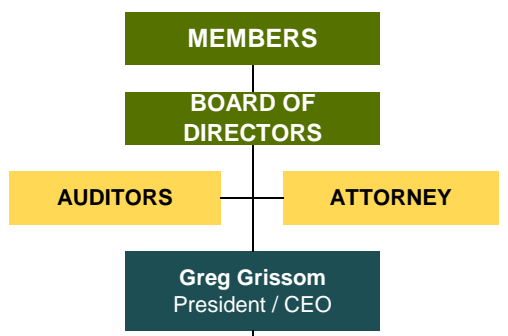
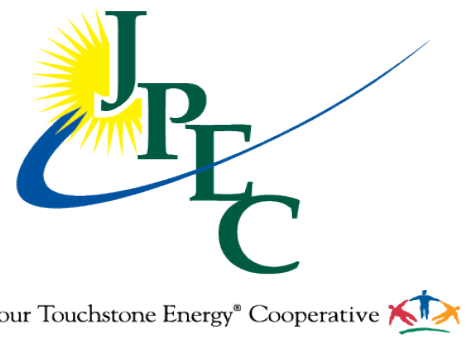
**Bargaining Employee**

**Independent Contractor**



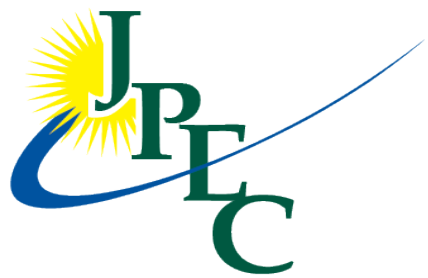


Total Employees **70**

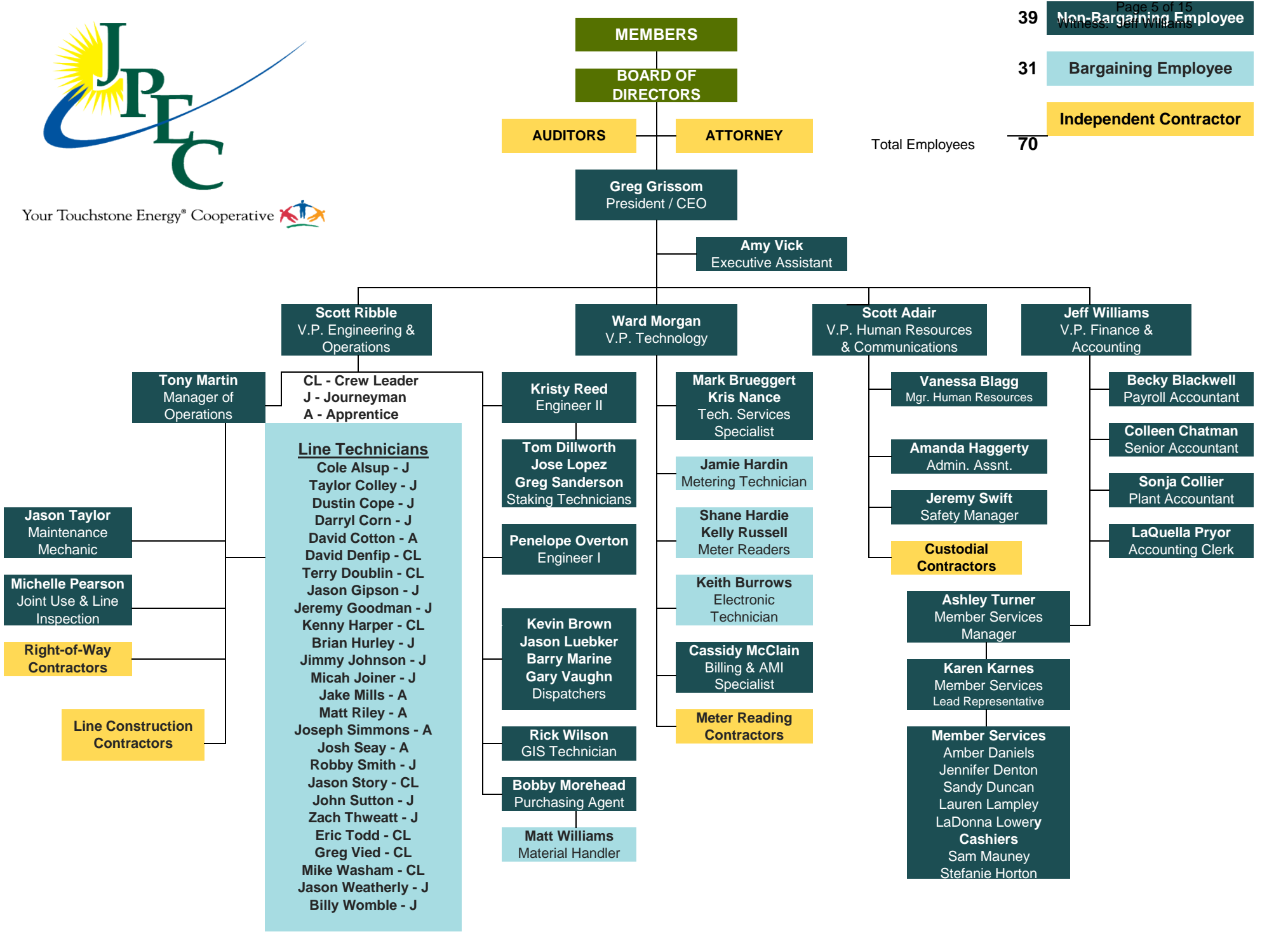




Total Employees **70**



Your Touchstone Energy® Cooperative 

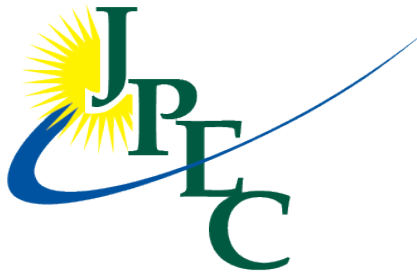


39 **Non-Bargaining Employee**  
Witness: Jeff Williams

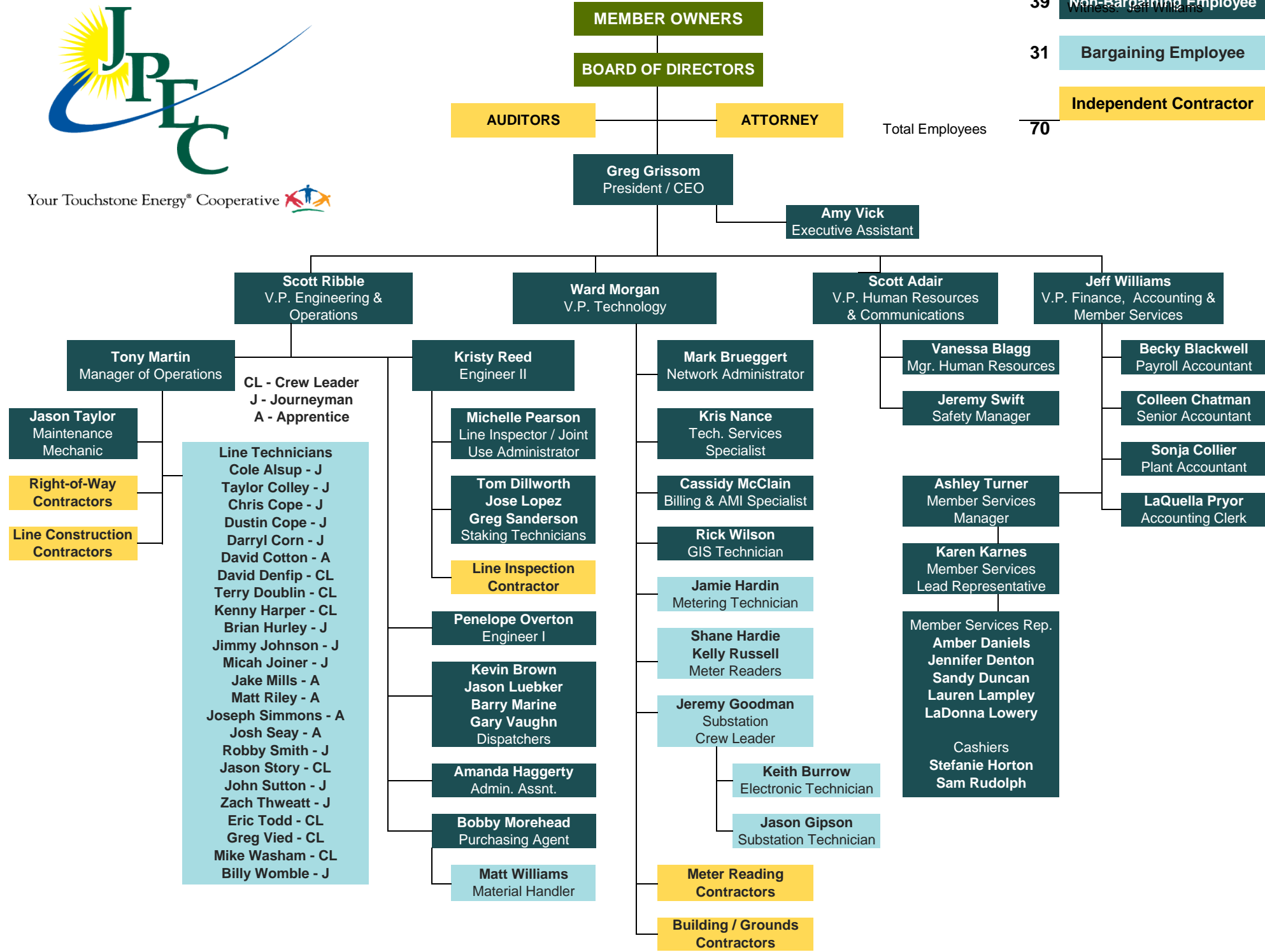
31 **Bargaining Employee**

**Independent Contractor**

Total Employees **70**



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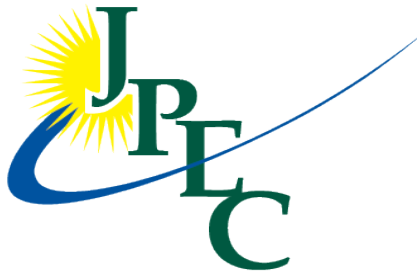


39 **Non-Bargaining Employee**  
Witness: Jeff Williams

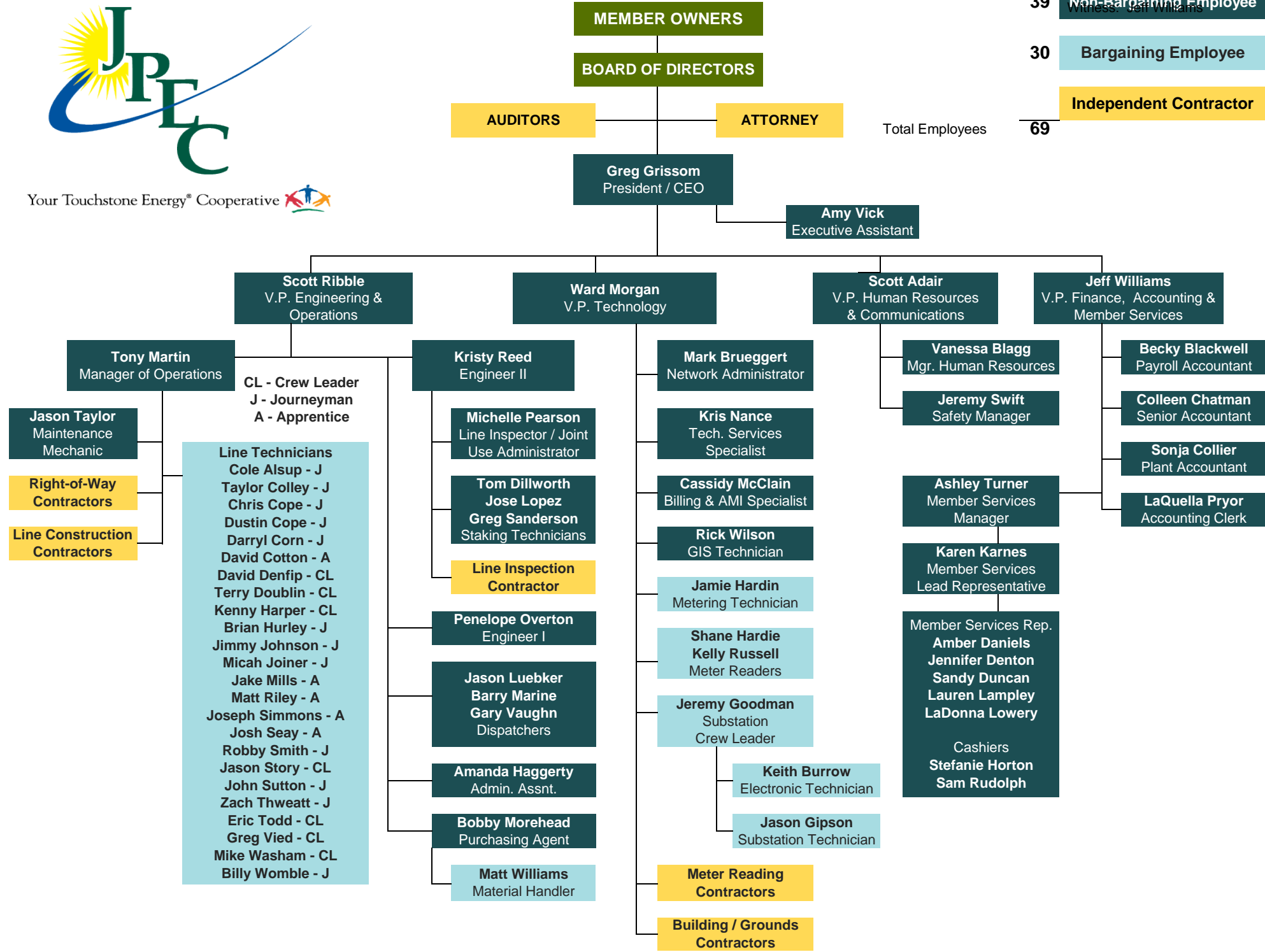
30 **Bargaining Employee**

**Independent Contractor**

Total Employees **69**



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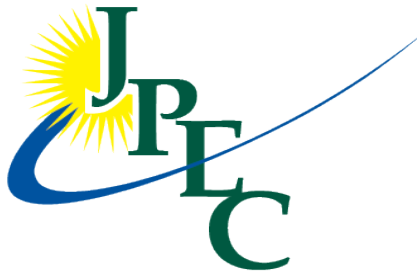


40 **Non-Bargaining Employee**  
Witness: Jeff Williams

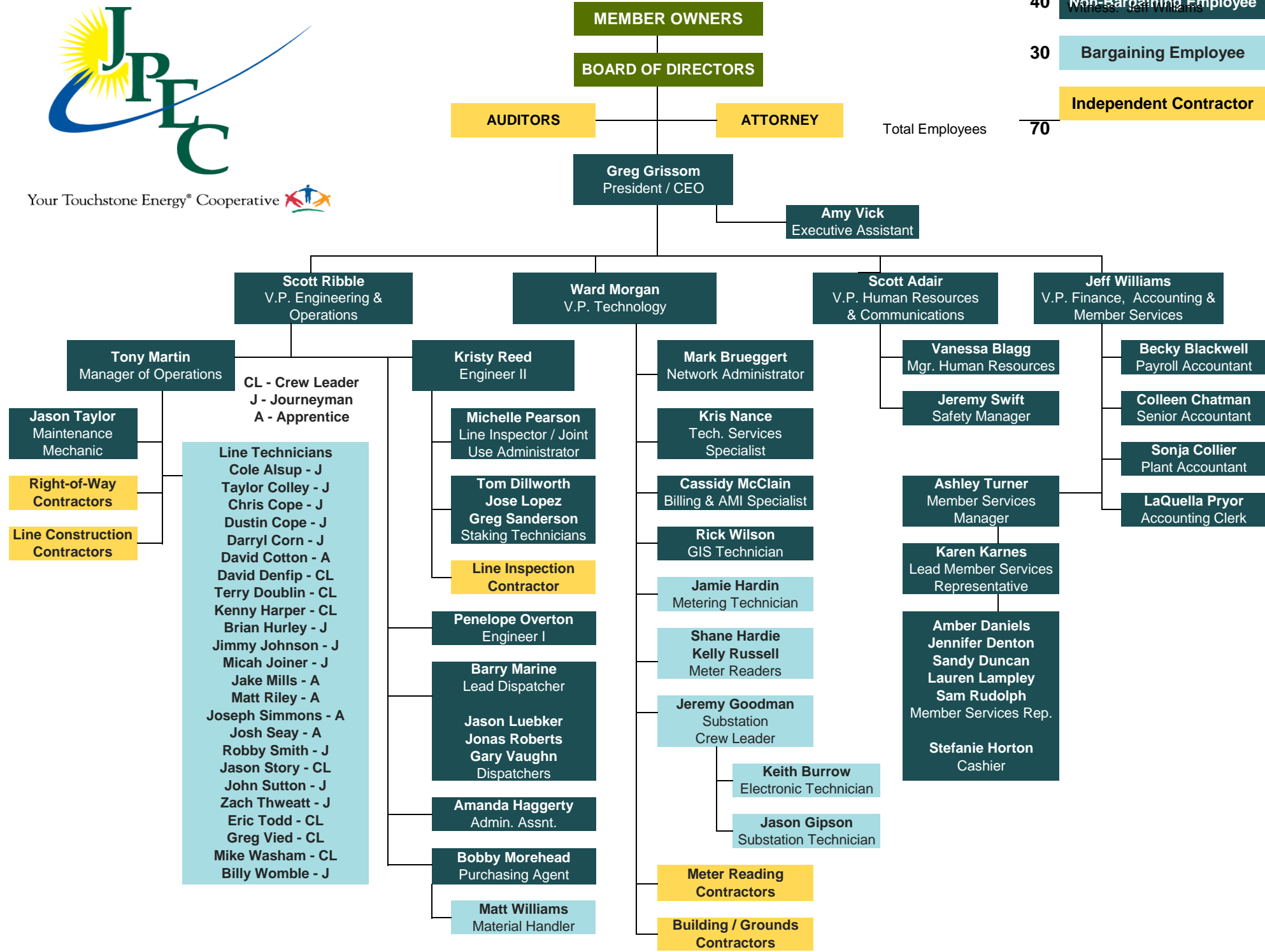
30 **Bargaining Employee**

**Independent Contractor**

Total Employees **70**



Your Touchstone Energy® Cooperative

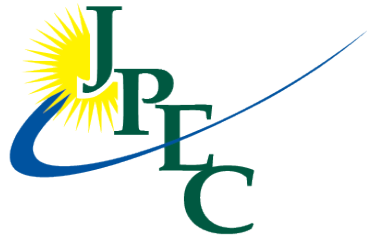


38 Non-Bargaining Employee  
Witness: Jeff Williams

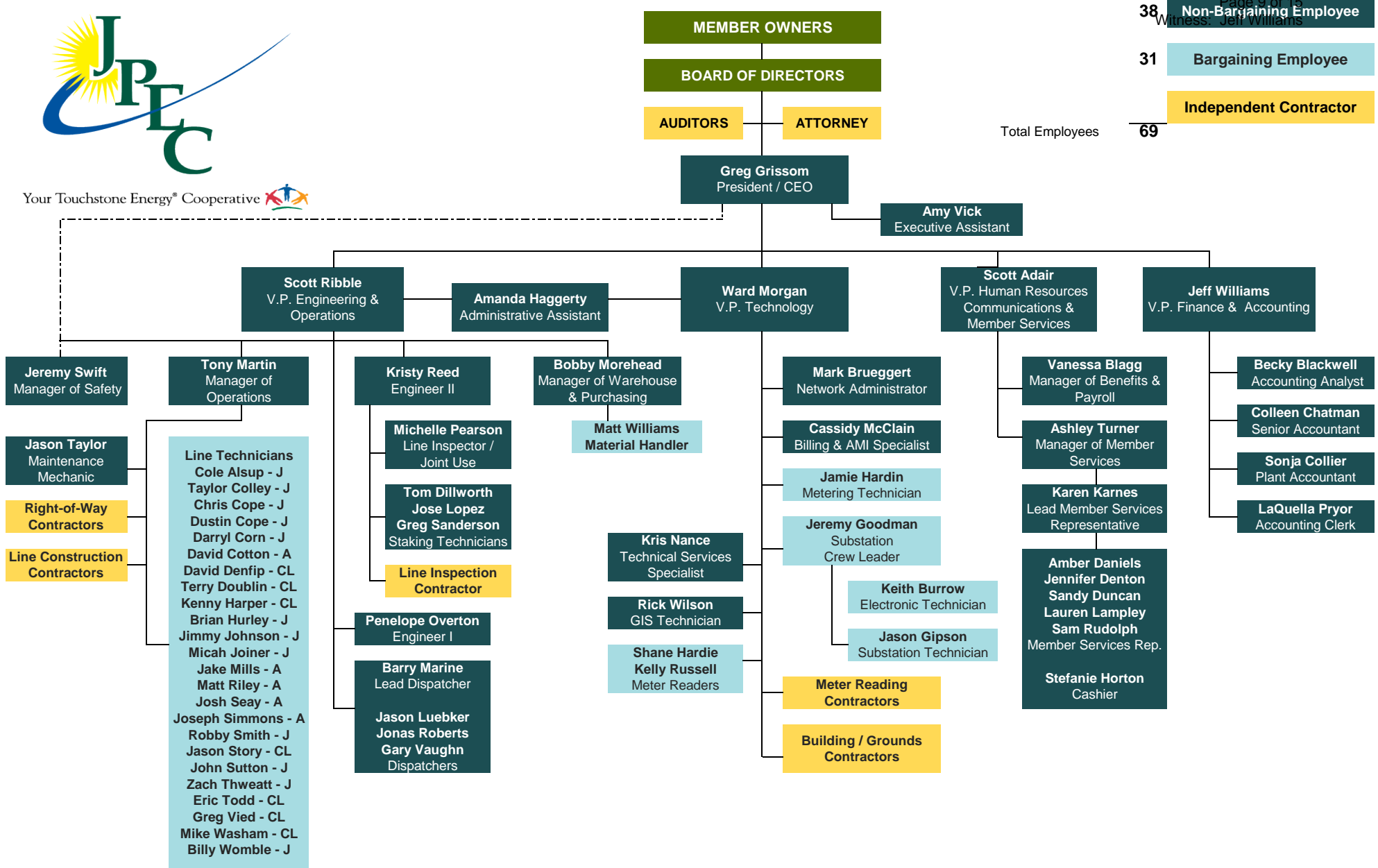
31 Bargaining Employee

Independent Contractor

Total Employees 69



Your Touchstone Energy® Cooperative

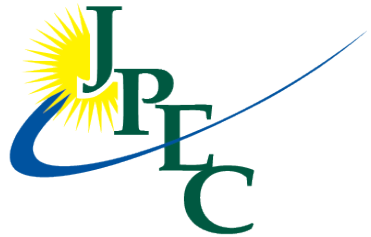


39 Non-Bargaining Employee  
 Witness: Jeff Williams

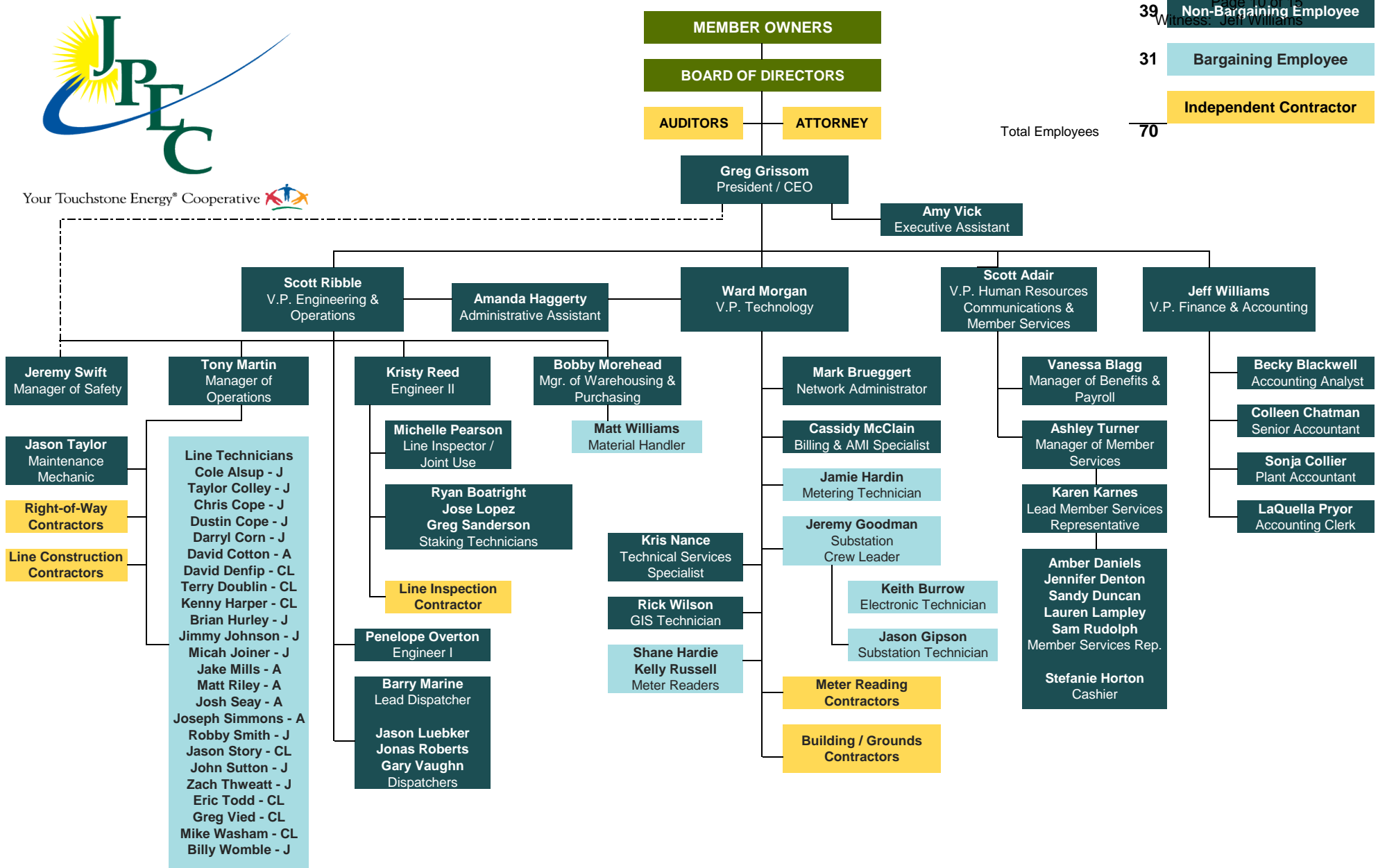
31 Bargaining Employee

Independent Contractor

Total Employees 70

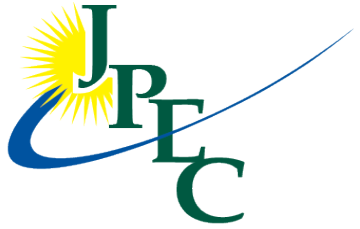


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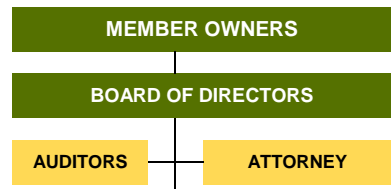


38 Non-Bargaining Employee  
 29 Bargaining Employee  
 Independent Contractor

Total Employees 67



Your Touchstone Energy® Cooperative



**Greg Grissom**  
President / CEO

**Amy Vick**  
Executive Assistant

**Ward Morgan**  
V.P. Operations and Technical Services

**Amanda Haggerty**  
Administrative Assistant

**Scott Adair**  
V.P. Human Resources  
Communications & Member Services

**Jeff Williams**  
V.P. Finance & Accounting

**Tony Martin**  
Manager of Operations

**Kristy Reed**  
Engineer II

**Bobby Morehead**  
Mgr. of Warehousing & Purchasing

**Jeremy Goodman**  
Manager of Technical Services

**Mark Brueggert**  
Manager of Information Technology

**Jeremy Swift**  
Manager of Safety

**Becky Blackwell**  
Accounting Analyst

- Line Technicians
- Cole Alsup - J
- Taylor Colley - J
- Dustin Cope - J
- Darryl Corn - J
- David Cotton - A
- David Denfip - CL
- Terry Dublin - CL
- Kenny Harper - CL
- Brian Hurley - J
- Jimmy Johnson - J
- Micah Joiner - J
- Jake Mills - A
- Matt Riley - A
- Josh Seay - A
- Joseph Simmons - J
- Robby Smith - J
- Jason Story - CL
- John Sutton - J
- Zach Thweatt - J
- Eric Todd - CL
- Greg Vied - CL
- Mike Washam - CL
- Billy Womble - J

**Jason Taylor**  
Maintenance Mechanic

**Right-of-Way Contractors**

**Line Construction Contractors**

**Michelle Pearson**  
Line Inspector / Joint Use

**Ryan Boatright**  
**Jose Lopez**  
**Greg Sanderson**  
Staking Technicians

**Line Inspection Contractor**

**Penelope Overton**  
Engineer I

**Barry Marine**  
Lead Dispatcher

**Jason Luebker**  
**Jonas Roberts**  
**Gary Vaughn**  
Dispatchers

**Matt Williams**  
Material Handler

**Building / Grounds Contractors**

**OPEN**  
Substation Crew Leader

**Keith Burrow**  
Electronic Technician

**Jason Gipson**  
Substation Technician

**Jamie Hardin**  
Metering Technician

**Shane Hardie**  
**Kelly Russell**  
Meter Readers

**Meter Reading Contractors**

**Kris Nance**  
Tech. Services Specialist

**Rick Wilson**  
GIS Technician

**Vanessa Blagg**  
Manager of Benefits & Payroll

**Ashley Turner**  
Manager of Member Services

**Karen Karnes**  
Lead Member Services Representative

**Amber Daniels**  
**Jennifer Denton**  
**Sandy Duncan**  
**Lauren Lampley**  
**Sam Rudolph**  
Member Services Rep.

**Colleen Chatman**  
Senior Accountant

**Sonja Collier**  
Plant Accountant

**LaQuella Pryor**  
Accounting Clerk

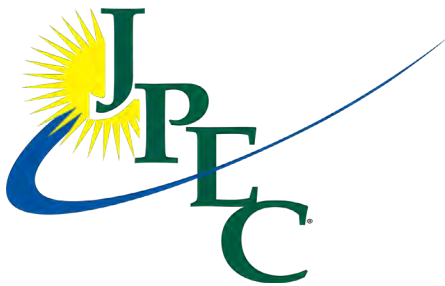
**Stefanie Horton**  
**Cassidy McClain**  
Billing & AMI Specialist

40 Non-Bargaining Employee  
 Page 12 of 15  
 Witness: Jeff Williams

30 Bargaining Employee

Independent Contractor

Total Employees 70



**MEMBER OWNERS**

**BOARD OF DIRECTORS**

**AUDITORS**

**ATTORNEY**

**Greg Grissom**  
 President / CEO

**Amy Vick**  
 Executive Assistant

**Ward Morgan**  
 V.P. Operations and Technical Services

**Amanda Haggerty**  
 Administrative Assistant

**Scott Adair**  
 V.P. Human Resources  
 Communications & Member Services

**Jeff Williams**  
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**Tony Martin**  
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**Jeremy Goodman**  
 Manager of Technical Services

**Mark Brueggert**  
 Mgr of Information Technology

**Jeremy Swift**  
 Manager of Safety

**Becky Blackwell**  
 Accounting Analyst

**Jason Taylor**  
 Maintenance Mechanic

**Penelope Overton**  
 Distribution Engineer I

**Matt Williams**  
 Material Handler

**Jason Gipson**  
 Substation Crew Leader

**Kris Nance**  
 Tech. Services Specialist

**Vanessa Blagg**  
 Manager of Benefits & Payroll

**Colleen Chatman**  
 Senior Accountant

**Right-of-Way Contractors**

**Travis Spiceland**  
 Distribution Engineer I

**Shane Hardie**  
 Building & Grounds

**Keith Burrow**  
 Electronic Technician

**Rick Wilson**  
 GIS Technician

**Ashley Turner**  
 Manager of Member Services

**Sonja Collier**  
 Plant Accountant

**Line Construction Contractors**

**Michelle Pearson**  
 Line Inspector / Joint Use Administrator

**Building / Grounds Contractors**

**Joseph Simmons**  
 Substation Technician

**Karen Karnes**  
 Lead Member Services Representative

**LaQuella Pryor**  
 Accounting Clerk

- Line Technicians**
- Cole Alsup - J
  - Taylor Colley - J
  - Dustin Cope - J
  - Darryl Corn - J
  - David Cotton - A
  - Colin Crawford - A
  - David Denfip - CL
  - Terry Dublin - CL
  - Kenny Harper - CL
  - Brian Hurley - J
  - Jimmy Johnson - J
  - Micah Joiner - J
  - Jake Mills - A
  - Dylan Reed - A
  - Matt Riley - A
  - Josh Seay - A
  - Robby Smith - CL
  - Jason Story - CL
  - John Sutton - J
  - Zach Thweatt - J
  - Eric Todd - CL
  - Greg Vied - CL
  - Mike Washam - CL
  - Billy Womble - J

**Ryan Boatright**  
**Jose Lopez**  
**Greg Sanderson**  
 Staking Technicians

**Jamie Hardin**  
**Kelly Russell**  
 Meter Readers

**Amber Daniels**  
**Jennifer Denton**  
**Sandy Duncan**  
**Lauren Lampley**  
**Sam Rudolph**  
 Member Services Rep.

**Stefanie Horton**  
**Cassidy McClain**  
 Billing & AMI Specialist

**Barry Marine**  
 Lead Dispatcher

**Meter Reading Contractors**

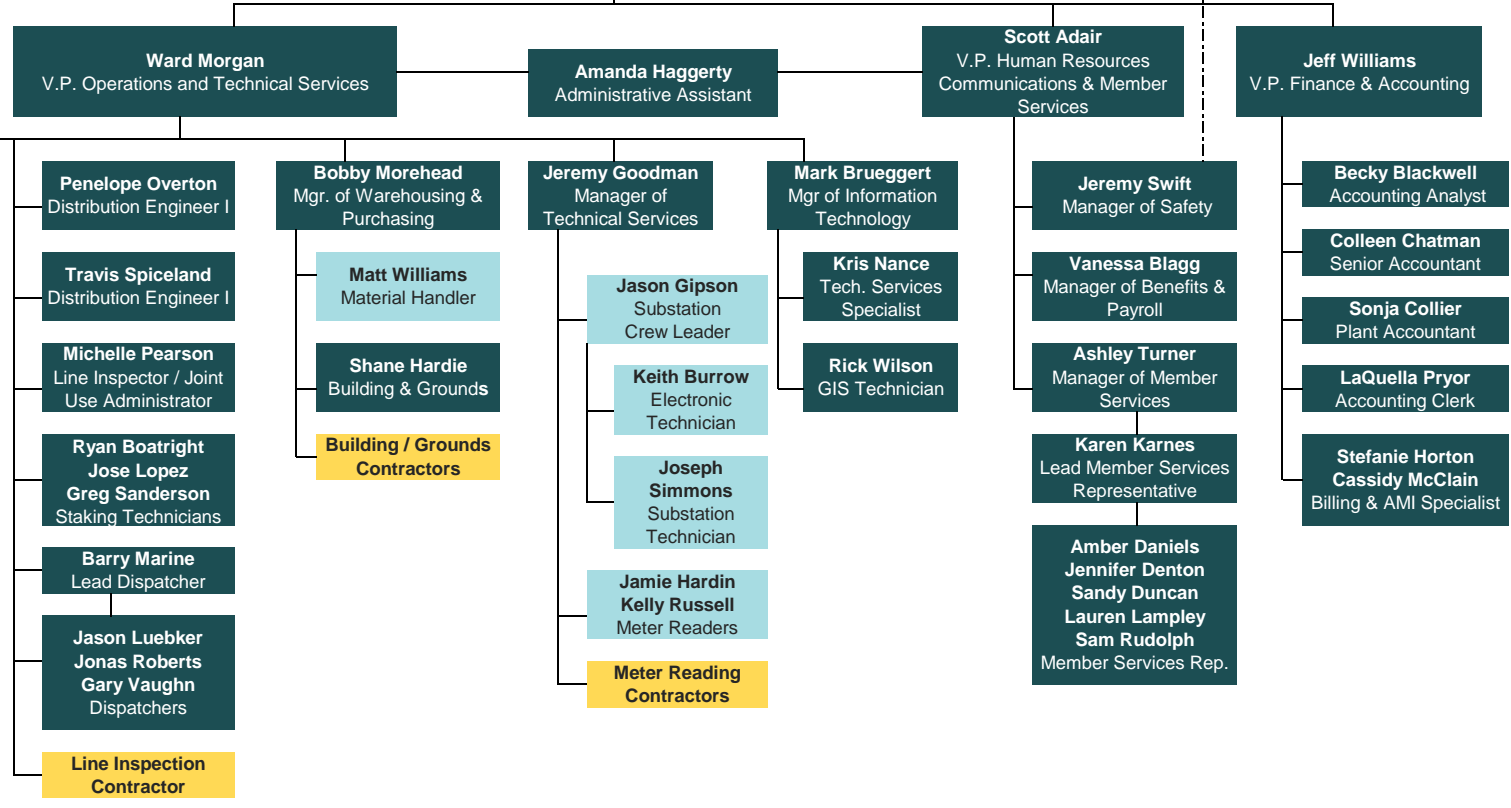
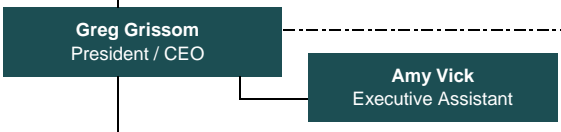
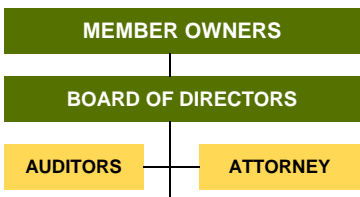
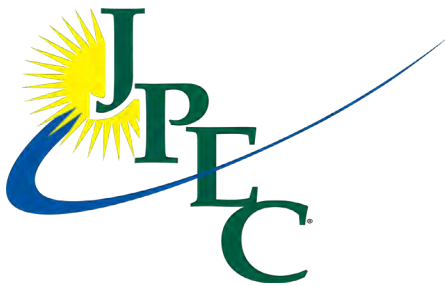
**Jason Luebker**  
**Jonas Roberts**  
**Gary Vaughn**  
 Dispatchers

**Line Inspection Contractor**

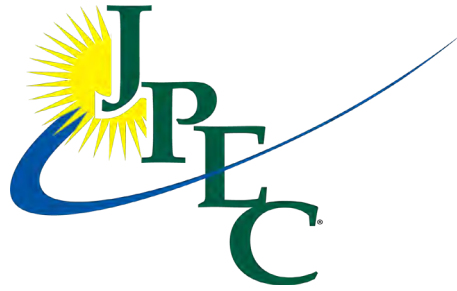


40 Non-Bargaining Employee  
 30 Bargaining Employee  
 Independent Contractor

Total Employees 70



- Line Technicians**  
 Cole Alsup - J  
 Taylor Colley - J  
 Dustin Cope - J  
 Darryl Corn - J  
 David Cotton - A  
 Colin Crawford - A  
 David Denfip - CL  
 Terry Dublin - CL  
 Kenny Harper - CL  
 Brian Hurley - J  
 Jimmy Johnson - J  
 Micah Joiner - J  
 Jake Mills - A  
 Dylan Reed - A  
 Matt Riley - A  
 Josh Seay - A  
 Robby Smith - CL  
 Jason Story - CL  
 John Sutton - J  
 Zach Thweatt - J  
 Eric Todd - CL  
 Mike Washam - CL  
 Billy Womble - J



**MEMBER OWNERS**

**BOARD OF DIRECTORS**

**AUDITORS**

**ATTORNEY**

**Greg Grissom**  
President / CEO

**Amy Vick**  
Executive Assistant

**Ward Morgan**  
V.P. Operations  
& Technical Services

**Amanda Haggerty**  
Administrative Assistant

**Scott Adair**  
V.P. Human Resources,  
Communications & Member  
Services

**Jeff Williams**  
V.P. Finance & Accounting

**Tony Martin**  
Mgr. of Operations

**Travis Spiceland**  
Mgr. of Engineering

**Bobby Morehead**  
Mgr. of Warehousing &  
Purchasing

**Jeremy Goodman**  
Mgr. of Technical  
Services

**Mark Brueggert**  
Mgr. of Information  
Technology

**Jeremy Swift**  
Mgr. of Safety

**Ashley Turner**  
Mgr. of Member  
Services

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Accounting Analyst

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Contractors**

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Contractors**

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Line Inspector / Joint  
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**Jose Lopez**  
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**Shane Hardie**  
Building &  
Grounds

**Building /  
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Contractors**

**Jason Gipson**  
Substation  
Crew Leader

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Electronic  
Technician

**Joseph  
Simmons**  
Substation  
Technician

**Jamie Hardin**  
**Kelly Russell**  
Meter Readers

**Barry Marine**  
Lead Dispatcher

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GIS Technician

**Vanessa Blagg**  
Human Resources  
Generalist

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Lead Member Services  
Representative

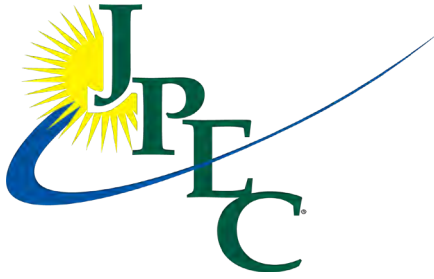
**Amber Daniels**  
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**LaQuella Pryor**  
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Billing & AMI  
Specialist



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 Mgr. of Right-of-Way &  
 Special Projects

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 Technician

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 Dispatchers

**Jason Taylor**  
 Maintenance Mechanic

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 Human Resources  
 Generalist

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**Lauren Lampley**  
**Sam Rudolph**  
 Member Services Rep.

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 Accounting Analyst

**Sonja Collier**  
 Plant Accountant

**LaQuella Pryor**  
 Accounting Clerk

**Stefanie Horton**  
**Cassidy McClain**  
 Billing & AMI  
 Specialist

**JACKSON PURCHASE ENERGY CORPORATION  
PSC CASE NO. 2021-00358  
SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG'S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21  
REQUEST 12**

**RESPONSIBLE PERSONS: Jeff Williams**

**COMPANY: Jackson Purchase Energy Corporation**

**Request 12.** Indicate the Company's pay frequency for each group of employees to the extent that there are differences, e.g., salaried and hourly paid employees or professional and union employees.

**Response 12.** There are no differences. All employees are paid weekly.

**JACKSON PURCHASE ENERGY CORPORATION  
PSC CASE NO. 2021-00358  
SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG'S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21  
REQUEST 13**

**RESPONSIBLE PERSON: Jeff Williams**

**COMPANY: Jackson Purchase Energy Corporation**

**Request 13.** Refer to the attachment to the supplemental response to AG 1-28 wherein it provides salary amounts and hourly amounts. Indicate whether the salary amounts are weekly or based on some other payroll schedule.

**Response 13.** The salary amounts listed are weekly.

**JACKSON PURCHASE ENERGY CORPORATION**  
**PSC CASE NO. 2021-00358**  
**SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG’S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21**  
**REQUEST 14**

**RESPONSIBLE PERSON:**           **John Wolfram**

**COMPANY:**                       **Jackson Purchase Energy Corporation**

**Request 14.**           Refer to Schedule 1.12 Wages and Salaries. In cell E21, the total payroll cost in the test year was \$6.212 million. In cell D27, the total payroll cost in 2020 was \$6.017 million, a reduction of \$0.195 million. In cell I21, the Company shows a total payroll cost in the “proforma year” of \$6.531 million, an increase of \$0.514 million compared to the actual total payroll cost in 2020. Provide all reasons why the total payroll costs should not be based on the actual costs in 2020 rather than the Company’s calculations for the “proforma year.”

**Response 14.**           The total payroll costs should be adjusted to reflect the most recent information available, which in this case is the pro forma calculation and not the 2020 actual data. The payroll cost is adjusted to reflect the most recent information available at the time the calculation was performed. The employee headcount and total regular hours were updated to reflect 70 employees at 2,080 hours per year (i.e. 40 hours per week for 52 weeks). The 2020 data was only used to determine the portion of total labor that is

expensed; this is used instead of 2019 test year data because it was the most recent year-end capitalization data available at the time of the calculation. This approach (i.e. updated employee headcount calculated at 2,080 hours per year at then-current wages) is consistent with that accepted by the Commission in the cooperative's last rate filing.

**JACKSON PURCHASE ENERGY CORPORATION**  
**PSC CASE NO. 2021-00358**  
**SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG'S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21**  
**REQUEST 15**

**RESPONSIBLE PERSON:**           **Jeff Williams**

**COMPANY:**                           **Jackson Purchase Energy Corporation**

**Request 15.**           Refer to the revised Schedule 1.09 and the narrative response to AG 1-29.

a.       Confirm that the revised Schedule 1.09 reflects outstanding long-term debt at some date in November 2021, nearly two years after the end of the historic test year and that the related revised revenue requirement includes two times the revised increase in long-term debt interest expense, one time for the increase in interest expense and the second time for the requested 2.0 TIER.

b.       Confirm that the Company did not reduce or eliminate its interest-other expense to reflect the fact that it repaid its short-term borrowings when it issued the new RUS/FFB debt in November 2021. If it did not reduce or eliminate this interest expense, then explain why it did not do so.

c.       Separate the November 2021 RUS/FFB #3-3 debt issuance on revised Schedule 1.09 into the amount for the new HQ building, the amount for other construction work plan projects, and the amounts for any other assets.



d. Provide the November 2021 trial balance for all accounts and compare the October 2021 trial balances to the November 2021 trial balances for each short-term debt and long-term debt trial balance account/subaccount.

e. Confirm that the revised Schedule 1.09 reflects \$82.896 million in long-term debt outstanding at some date in November 2021 compared to the actual \$45.808 million at December 31, 2019, an increase of \$37.088 million, or 81.0%, in less than two years and since the end of the historic test year.

**Response 15.**

(a) Confirmed, Jackson Purchase reflected this amount on the interest pro-forma to show known and measurable changes.

(b) The short-term borrowings that Jackson Purchase paid off were the headquarters line-of-credit, which did not exist in the test year. Even so, Jackson Purchase would agree that an adjustment should be necessary to interest-other expense. That amount should be \$171,498.26, which is the test year amount for short-term line of credit expenses that is contained in interest other expense. Please see the revisions to Reference Schedule 1.09, Interest Expense, included in the file uploaded in response to PSC 3-7.

(c) Out of the \$21,926,146.48, \$15,110,947.30 was related to the headquarters. The remainder was for other construction work plan items.

(d) Please refer to Jackson Purchase's response to AG 1-3, specifically the attachment, pages 15-16 of 19. For long-term debt please look at all 224 accounts and for short-term debt, please look at all 231 accounts. If you would rather see the monthly activity, please refer to our updated response to the AG's supplemental request for AG 1-3. The last information is September, but Jackson Purchase is already planning to provide the updates to AG 1-3 as previously requested.

(e) Jackson Purchase confirms that the amount on Schedule 1.09 shows \$82.896 million in long-term debt outstanding. The remainder of part (e) is not confirmed and is in error.

**JACKSON PURCHASE ENERGY CORPORATION  
PSC CASE NO. 2021-00358  
SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG'S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21**

**REQUEST 16**

**RESPONSIBLE PERSON: Jeff Williams**

**COMPANY: Jackson Purchase Energy Corporation**

**Request 16.** Confirm that the Company did not capitalize interest to the new HQ building during construction. If confirmed, then explain why it did not do so.

**Response 16.** This is incorrect. Please refer to Jackson Purchase's response to PSC 1-9.

**JACKSON PURCHASE ENERGY CORPORATION  
PSC CASE NO. 2021-00358  
SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG'S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21  
REQUEST 17**

**RESPONSIBLE PERSON: Jeff Williams**

**COMPANY: Jackson Purchase Energy Corporation**

**Request 17.** Provide a schedule showing the actual monthly construction costs incurred for the new HQ building that were recorded to CWIP. Provide the journal entries by month from the date the Company first incurred capital expenditures recorded to CWIP until the CWIP was closed to plant in service.

**Response 17.** Please see attachments – pages 2 through 29 of the attachment show the activity by month of the purchase of the property and building and the remodel of the building. Pages 30 through 31 of the attachment show the work order journal entry transferred out of account 107.2 to account 390.05.

**20005283 JPEC Construction of New HQ**

Feb-20 \$ 3,756,052.70

02/12/2020 3:56:10 pm

**GENERAL LEDGER  
 JOURNAL DETAIL**

Page: 1

**Journal :** 68037  
**Description :** Journal Entry  
**Created Date :** 02/12/2020  
**Created By :** cchatman  
**Status :** Approved

**Approved/Rejected Date :** 02/12/2020  
**Approved/Rejected By :** cchatman  
**Module :** General Ledger  
**Journal Activity :** Journal Entry

Line	Div Account	Description	Dept	Actv	BU Project	Jrnl Code Reference	Date	Debit	Credit
1	0 107.2	WIP - CONSTRUCTION JPEC CRE	0	0		3 Contract Price for Sportsplex	02/11/2020	3,700,000.00	
2	0 390.05	GEN PLT - STRUCTURES New Hea	0	0		3 Contract Price for Sportplex	02/11/2020		3,700,000.00
<b>Total for Journal Number 68037:</b>								3,700,000.00	3,700,000.00

5898

20200211080822

2-11-2020

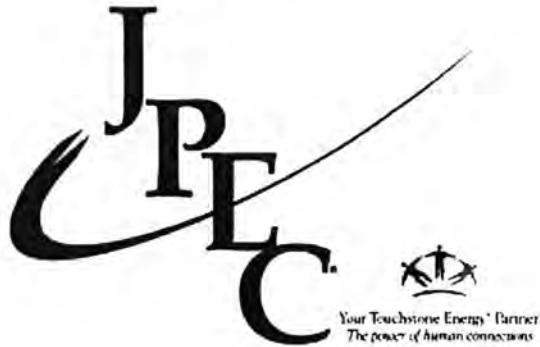
**LaQuella D. Pryor**

**From:** Jeff Williams  
**Sent:** Tuesday, February 11, 2020 8:06 AM  
**To:** LaQuella D. Pryor  
**Cc:** Colleen Chatman  
**Subject:** FW: Plex payment

Per the Contract to acquire the sportsplex and approved by the KY PSC in Case No. 2019-00326, please cut a check for \$3,700,000 payable to BSG Escrow immediately. This money will be deposited in our Attorney's escrow (BSG Escrow) so he can close the deal. Use this email as backup to the check.

**Jeff Williams**

CFO - VP Finance, Accounting & Member Services  
Jackson Purchase Energy  
[Jeff.williams@jpenergy.com](mailto:Jeff.williams@jpenergy.com)  
Office: 270.441.0825  
Cell: 270.860.9339



**From:** Greg Grissom <Greg.Grissom@jpenergy.com>  
**Sent:** Tuesday, February 11, 2020 7:44 AM  
**To:** Jeff Williams <Jeff.Williams@jpenergy.com>; Erick Harris <Erick.Harris2@jpenergy.com>; Richard L. Walter <rwalter@bsgpad.com>  
**Subject:** Plex payment

02/12/2020 4:18:14 pm

**GENERAL LEDGER  
 JOURNAL DETAIL**

Page: 1

**Journal :** 68040  
**Description :** Journal Entry  
**Created Date :** 02/12/2020  
**Created By :** cchatman  
**Status :** Approved

**Approved/Rejected Date :** 02/12/2020  
**Approved/Rejected By :** cchatman  
**Module :** General Ledger  
**Journal Activity :** Journal Entry

Line	Div Account	Description	Dept	Actv	BU Project	Jrnl Code Reference	Date	Debit	Credit
1	0 107.2	WIP - CONSTRUCTION JPEC CRE	0	0		3 Escrow Deposit on Real Estate	02/12/2020	25,000.00	
2	0 183.0	PRELIMINARY SURVEY & INVES	0	0		3 Escrow Deposit on Real Estate	02/12/2020		25,000.00
3	0 107.2	WIP - CONSTRUCTION JPEC CRE	0	0		3 Escrow Deposit on Real Estate	02/12/2020	25,000.00	
4	0 183.0	PRELIMINARY SURVEY & INVES	0	0		3 Escrow Deposit on Real Estate	02/12/2020		25,000.00
<b>Total for Journal Number 68040:</b>								50,000.00	50,000.00



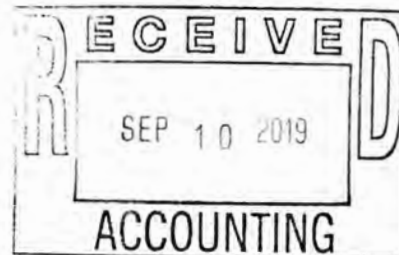
5898

20190910075635

9-13-2019

**LaQuella D. Pryor**

**From:** Jeff Williams  
**Sent:** Tuesday, May 28, 2019 11:00 AM  
**To:** LaQuella D. Pryor  
**Cc:** Colleen Chatman  
**Subject:** FW: Check needed  
**Attachments:** PRSP LOI\_Executed.pdf



Please process this check today.

**From:** Amy Vick <Amy.Vick@jpenenergy.com>  
**Sent:** Tuesday, May 28, 2019 10:13 AM  
**To:** Jeff Williams <Jeff.Williams@jpenenergy.com>  
**Subject:** Check needed

Jeff,

Please have a check cut to BSG Escrow for \$25,000 to accompany the executed LOI. I will need the check today. ~~There will need to be a second check for \$25,000 cut August 1<sup>st</sup>, as detailed on page 2 of the LOI.~~

**Amy Vick | JACKSON PURCHASE ENERGY |  
Executive Assistant**

P 270.441.0813 | M 270.557.9059 | F 270.441.0866  
[Amy.Vick@jpenenergy.com](mailto:Amy.Vick@jpenenergy.com)



5898

2019 0528 112407

5-28-2019

**LaQuella D. Pryor**

---

**From:** Jeff Williams  
**Sent:** Tuesday, May 28, 2019 11:00 AM  
**To:** LaQuella D. Pryor  
**Cc:** Colleen Chatman  
**Subject:** FW: Check needed  
**Attachments:** PRSP LOI\_Executed.pdf

Please process this check today.

**From:** Amy Vick <Amy.Vick@jpenenergy.com>  
**Sent:** Tuesday, May 28, 2019 10:13 AM  
**To:** Jeff Williams <Jeff.Williams@jpenenergy.com>  
**Subject:** Check needed

Jeff,  
Please have a check cut to BSG Escrow for \$25,000 to accompany the executed LOI. I will need the check today. There will need to be a second check for \$25,000 cut August 1<sup>st</sup>, as detailed on page 2 of the LOI.

**Amy Vick | JACKSON PURCHASE ENERGY |  
Executive Assistant**

P 270.441.0813 | M 270.557.9059 | F 270.441.0866  
[Amy.Vick@jpenenergy.com](mailto:Amy.Vick@jpenenergy.com)



5898

2019 0528 112407

5-28-2019

**LaQuella D. Pryor**

**From:** Jeff Williams  
**Sent:** Tuesday, May 28, 2019 11:00 AM  
**To:** LaQuella D. Pryor  
**Cc:** Colleen Chatman  
**Subject:** FW: Check needed  
**Attachments:** PRSP LOI\_Executed.pdf

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**Sent:** Tuesday, May 28, 2019 10:13 AM  
**To:** Jeff Williams <Jeff.Williams@jpenenergy.com>  
**Subject:** Check needed

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**Amy Vick | JACKSON PURCHASE ENERGY |  
 Executive Assistant**

P 270.441.0813 | M 270.557.9059 | F 270.441.0866  
[Amy.Vick@jpenenergy.com](mailto:Amy.Vick@jpenenergy.com)



02/12/2020 4:01:11 pm

**GENERAL LEDGER  
 JOURNAL DETAIL**

Page: 1

**Journal :** 68039  
**Description :** Journal Entry  
**Created Date :** 02/12/2020  
**Created By :** cchatman  
**Status :** Approved

**Approved/Rejected Date :** 02/12/2020  
**Approved/Rejected By :** cchatman  
**Module :** General Ledger  
**Journal Activity :** Journal Entry

Line	Div Account	Description	Dept	Actv	BU Project	Jrnl Code Reference	Date	Debit	Credit
1	0 107.2	WIP - CONSTRUCTION JPEC CRE	0	0		3 BSG Escrow	02/12/2020	6,052.70	
2	0 390.05	GEN PLT - STRUCTURES New Hea	0	0		3 BSG Escrow	02/12/2020		6,052.70
<b>Total for Journal Number 68039:</b>								6,052.70	6,052.70

5898

2/12/2020

20200212153335

**LaQuella D. Pryor**

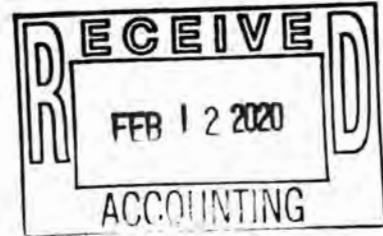
**From:** Jeff Williams  
**Sent:** Wednesday, February 12, 2020 3:30 PM  
**To:** LaQuella D. Pryor  
**Subject:** FW:

Can we cut another check to BSG escrow today?

Amount below.

**From:** Richard L. Walter <rwalter@bsgpad.com>  
**Sent:** Wednesday, February 12, 2020 1:47 PM  
**To:** Jeff Williams <Jeff.Williams@jpenenergy.com>  
**Subject:**

It looks like with closing costs etc I will need another \$6,052.70



**20005283 JPEC Construction of New HQ**

Mar-20	\$	333,878.07
Apr-20	\$	222,423.50
May-20	\$	292,437.41
Jun-20	\$	226,229.59
Jul-20	\$	26,322.00
Aug-20	\$	165,243.62
Sep-20	\$	2,697,711.06
Oct-20	\$	1,558.50
Nov-20	\$	2,723,807.90
Dec-20	\$	3,091,373.27
Jan-21	\$	1,076,747.69
Feb-21	\$	(44,899.88)
Mar-21	\$	907,716.98
Apr-21	\$	1,290,275.57
May-21	\$	1,143,938.65
Jun-21	\$	1,087,422.00
Jul-21	\$	23,985.25
Aug-21	\$	101,107.63
	\$	<b>15,367,278.81</b>

12/17/2021 12:52:04 pm

Witness: Jeff Williams Page: 1

# WORK ORDER PROGRESS

**Work Order:** 20005285      **Description:** Construction of New Headquarters      **Open Date:** 02/12/2020    **Map Location:** 30000000  
**Customer:** 420002603      **Name:** JPEC OFFICE      **Closed Date:** 08/31/2021    **Loan:** AT 8      **Loan Project:** 1301-

**Construction**

Chg C	Description	Prior Balance	Oct 2019	Nov 2019	Dec 2019	Jan 2020	Feb 2020	Mar 2020	Total
31	MISCELLANEOUS	0.00	0.00	0.00	0.00	0.00	0.00	333,878.07	333,878.07
<b>Total For Construction:</b>		0.00	0.00	0.00	0.00	0.00	0.00	333,878.07	333,878.07

12/17/2021 1:31:24 pm

Witness: Jeff Williams Page: 1

# WORK ORDER PROGRESS

**Work Order:** 20005285      **Description:** Construction of New Headquarters      **Open Date:** 02/12/2020    **Map Location:** 30000000  
**Customer:** 420002603      **Name:** JPEC OFFICE      **Closed Date:** 08/31/2021    **Loan:** AT 8      **Loan Project:** 1301-

**Construction**

Chg C	Description	Prior Balance	Nov 2019	Dec 2019	Jan 2020	Feb 2020	Mar 2020	Apr 2020	Total
31	MISCELLANEOUS	0.00	0.00	0.00	0.00	0.00	0.00	222,423.50	222,423.50
<b>Total For Construction:</b>		0.00	0.00	0.00	0.00	0.00	0.00	222,423.50	222,423.50



12/17/2021 2:41:58 pm

Witness: Jeff Williams Page: 1

# WORK ORDER PROGRESS

**Work Order:** 20005285      **Description:** Construction of New Headquarters      **Open Date:** 02/12/2020    **Map Location:** 30000000  
**Customer:** 420002603      **Name:** JPEC OFFICE      **Closed Date:** 08/31/2021    **Loan:** AT 8      **Loan Project:** 1301-

**Construction**

Chg C	Description	Prior Balance	Dec 2019	Jan 2020	Feb 2020	Mar 2020	Apr 2020	May 2020	Total
31	MISCELLANEOUS	0.00	0.00	0.00	0.00	0.00	0.00	292,437.41	292,437.41
<b>Total For Construction:</b>		0.00	0.00	0.00	0.00	0.00	0.00	292,437.41	292,437.41

12/17/2021 2:42:29 pm

Witness: Jeff Williams Page: 1

# WORK ORDER PROGRESS

**Work Order:** 20005285      **Description:** Construction of New Headquarters      **Open Date:** 02/12/2020    **Map Location:** 30000000  
**Customer:** 420002603      **Name:** JPEC OFFICE      **Closed Date:** 08/31/2021    **Loan:** AT 8      **Loan Project:** 1301-

**Construction**

Chg C	Description	Prior Balance	Jan 2020	Feb 2020	Mar 2020	Apr 2020	May 2020	Jun 2020	Total
31	MISCELLANEOUS	0.00	0.00	0.00	0.00	0.00	0.00	226,229.59	226,229.59
<b>Total For Construction:</b>		0.00	0.00	0.00	0.00	0.00	0.00	226,229.59	226,229.59

12/17/2021 2:42:51 pm

Witness: Jeff Williams Page: 1

# WORK ORDER PROGRESS

**Work Order:** 20005285      **Description:** Construction of New Headquarters      **Open Date:** 02/12/2020    **Map Location:** 30000000  
**Customer:** 420002603      **Name:** JPEC OFFICE      **Closed Date:** 08/31/2021    **Loan:** AT 8      **Loan Project:** 1301-

**Construction**

Chg C	Description	Prior Balance	Feb 2020	Mar 2020	Apr 2020	May 2020	Jun 2020	Jul 2020	Total
31	MISCELLANEOUS	0.00	0.00	0.00	0.00	0.00	0.00	26,322.00	26,322.00
<b>Total For Construction:</b>		0.00	0.00	0.00	0.00	0.00	0.00	26,322.00	26,322.00

12/17/2021 2:43:15 pm

Witness: Jeff Williams Page: 1

# WORK ORDER PROGRESS

**Work Order:** 20005285      **Description:** Construction of New Headquarters      **Open Date:** 02/12/2020    **Map Location:** 30000000  
**Customer:** 420002603      **Name:** JPEC OFFICE      **Closed Date:** 08/31/2021    **Loan:** AT 8      **Loan Project:** 1301-

**Construction**

Chg C	Description	Prior Balance	Mar 2020	Apr 2020	May 2020	Jun 2020	Jul 2020	Aug 2020	Total
31	MISCELLANEOUS	0.00	0.00	0.00	0.00	0.00	0.00	165,243.62	165,243.62
<b>Total For Construction:</b>		0.00	0.00	0.00	0.00	0.00	0.00	165,243.62	165,243.62

12/17/2021 2:43:36 pm

Witness: Jeff Williams Page: 1

# WORK ORDER PROGRESS

**Work Order:** 20005285      **Description:** Construction of New Headquarters  
**Customer:** 420002603      **Name:** JPEC OFFICE

**Open Date:** 02/12/2020    **Map Location:** 30000000  
**Closed Date:** 08/31/2021   **Loan:** AT 8      **Loan Project:** 1301-

**Construction**

Chg C	Description	Prior Balance	Apr 2020	May 2020	Jun 2020	Jul 2020	Aug 2020	Sep 2020	Total
31	MISCELLANEOUS	0.00	0.00	0.00	0.00	0.00	0.00	2,697,711.06	2,697,711.06
<b>Total For Construction:</b>		0.00	0.00	0.00	0.00	0.00	0.00	2,697,711.06	2,697,711.06

12/17/2021 2:45:56 pm

Witness: Jeff Williams Page: 1

# WORK ORDER PROGRESS

**Work Order:** 20005285      **Description:** Construction of New Headquarters

**Open Date:** 02/12/2020    **Map Location:** 30000000

**Customer:** 420002603

**Name:** JPEC OFFICE

**Closed Date:** 08/31/2021    **Loan:** AT 8      **Loan Project:** 1301-

**Construction**

Chg C	Description	Prior Balance	May 2020	Jun 2020	Jul 2020	Aug 2020	Sep 2020	Oct 2020	Total
31	MISCELLANEOUS	0.00	0.00	0.00	0.00	0.00	0.00	1,558.50	1,558.50
<b>Total For Construction:</b>		0.00	0.00	0.00	0.00	0.00	0.00	1,558.50	1,558.50

12/17/2021 2:48:23 pm

Witness: Jeff Williams Page: 1

# WORK ORDER PROGRESS

**Work Order:** 20005285      **Description:** Construction of New Headquarters      **Open Date:** 02/12/2020    **Map Location:** 30000000  
**Customer:** 420002603      **Name:** JPEC OFFICE      **Closed Date:** 08/31/2021    **Loan:** AT 8      **Loan Project:** 1301-

**Construction**

Chg C	Description	Prior Balance	Jun 2020	Jul 2020	Aug 2020	Sep 2020	Oct 2020	Nov 2020	Total
31	MISCELLANEOUS	0.00	0.00	0.00	0.00	0.00	0.00	2,723,807.90	2,723,807.90
<b>Total For Construction:</b>		0.00	0.00	0.00	0.00	0.00	0.00	2,723,807.90	2,723,807.90

12/17/2021 2:50:08 pm

Witness: Jeff Williams Page: 1

# WORK ORDER PROGRESS

**Work Order:** 20005285      **Description:** Construction of New Headquarters

**Open Date:** 02/12/2020    **Map Location:** 30000000

**Customer:** 420002603

**Name:** JPEC OFFICE

**Closed Date:** 08/31/2021    **Loan:** AT 8      **Loan Project:** 1301-

**Construction**

Chg C	Description	Prior Balance	Jul 2020	Aug 2020	Sep 2020	Oct 2020	Nov 2020	Dec 2020	Total
22	A/P (J/E) DIRECT MATERIAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	MISCELLANEOUS	0.00	0.00	0.00	0.00	0.00	0.00	3,091,373.27	3,091,373.27
<b>Total For Construction:</b>		0.00	0.00	0.00	0.00	0.00	0.00	3,091,373.27	3,091,373.27



12/17/2021 2:51:09 pm

Witness: Jeff Williams Page: 1

# WORK ORDER PROGRESS

**Work Order:** 20005285      **Description:** Construction of New Headquarters      **Open Date:** 02/12/2020    **Map Location:** 30000000  
**Customer:** 420002603      **Name:** JPEC OFFICE      **Closed Date:** 08/31/2021    **Loan:** AT 8      **Loan Project:** 1301-

**Construction**

Chg C	Description	Prior Balance	Aug 2020	Sep 2020	Oct 2020	Nov 2020	Dec 2020	Jan 2021	Total
31	MISCELLANEOUS	0.00	0.00	0.00	0.00	0.00	0.00	1,076,747.69	1,076,747.69
<b>Total For Construction:</b>		0.00	0.00	0.00	0.00	0.00	0.00	1,076,747.69	1,076,747.69

12/17/2021 2:52:13 pm

Witness: Jeff Williams Page: 1

# WORK ORDER PROGRESS

**Work Order:** 20005285      **Description:** Construction of New Headquarters  
**Customer:** 420002603      **Name:** JPEC OFFICE

**Open Date:** 02/12/2020    **Map Location:** 30000000  
**Closed Date:** 08/31/2021    **Loan:** AT 8      **Loan Project:** 1301-

**Construction**

Chg C	Description	Prior Balance	Sep 2020	Oct 2020	Nov 2020	Dec 2020	Jan 2021	Feb 2021	Total
22	A/P (J/E) DIRECT MATERIAL	0.00	0.00	0.00	0.00	0.00	0.00	-38,688.94	-38,688.94
31	MISCELLANEOUS	0.00	0.00	0.00	0.00	0.00	0.00	-6,210.94	-6,210.94
<b>Total For Construction:</b>		0.00	0.00	0.00	0.00	0.00	0.00	-44,899.88	-44,899.88

12/17/2021 2:53:13 pm

Witness: Jeff Williams Page: 1

# WORK ORDER PROGRESS

**Work Order:** 20005285      **Description:** Construction of New Headquarters      **Open Date:** 02/12/2020      **Map Location:** 30000000  
**Customer:** 420002603      **Name:** JPEC OFFICE      **Closed Date:** 08/31/2021      **Loan:** AT 8      **Loan Project:** 1301-

**Construction**

Chg C	Description	Prior Balance	Oct 2020	Nov 2020	Dec 2020	Jan 2021	Feb 2021	Mar 2021	Total
31	MISCELLANEOUS	0.00	0.00	0.00	0.00	0.00	0.00	907,716.98	907,716.98
<b>Total For Construction:</b>		0.00	0.00	0.00	0.00	0.00	0.00	907,716.98	907,716.98

12/17/2021 2:54:05 pm

Witness: Jeff Williams Page: 1

# WORK ORDER PROGRESS

**Work Order:** 20005285      **Description:** Construction of New Headquarters      **Open Date:** 02/12/2020    **Map Location:** 30000000  
**Customer:** 420002603      **Name:** JPEC OFFICE      **Closed Date:** 08/31/2021    **Loan:** AT 8      **Loan Project:** 1301-

**Construction**

Chg C	Description	Prior Balance	Nov 2020	Dec 2020	Jan 2021	Feb 2021	Mar 2021	Apr 2021	Total
31	MISCELLANEOUS	0.00	0.00	0.00	0.00	0.00	0.00	1,290,275.57	1,290,275.57
<b>Total For Construction:</b>		0.00	0.00	0.00	0.00	0.00	0.00	1,290,275.57	1,290,275.57

12/17/2021 2:55:01 pm

Witness: Jeff Williams Page: 1

# WORK ORDER PROGRESS

**Work Order:** 20005285      **Description:** Construction of New Headquarters      **Open Date:** 02/12/2020    **Map Location:** 30000000  
**Customer:** 420002603      **Name:** JPEC OFFICE      **Closed Date:** 08/31/2021    **Loan:** AT 8      **Loan Project:** 1301-

**Construction**

Chg C	Description	Prior Balance	Dec 2020	Jan 2021	Feb 2021	Mar 2021	Apr 2021	May 2021	Total
22	A/P (J/E) DIRECT MATERIAL	0.00	0.00	0.00	0.00	0.00	0.00	38,688.94	38,688.94
31	MISCELLANEOUS	0.00	0.00	0.00	0.00	0.00	0.00	1,105,249.71	1,105,249.71
<b>Total For Construction:</b>		0.00	0.00	0.00	0.00	0.00	0.00	1,143,938.65	1,143,938.65

12/17/2021 2:56:42 pm

Witness: Jeff Williams Page: 1

# WORK ORDER PROGRESS

**Work Order:** 20005285      **Description:** Construction of New Headquarters      **Open Date:** 02/12/2020    **Map Location:** 30000000  
**Customer:** 420002603      **Name:** JPEC OFFICE      **Closed Date:** 08/31/2021    **Loan:** AT 8      **Loan Project:** 1301-

**Construction**

Chg C	Description	Prior Balance	Jan 2021	Feb 2021	Mar 2021	Apr 2021	May 2021	Jun 2021	Total
31	MISCELLANEOUS	0.00	0.00	0.00	0.00	0.00	0.00	1,087,422.00	1,087,422.00
<b>Total For Construction:</b>		0.00	0.00	0.00	0.00	0.00	0.00	1,087,422.00	1,087,422.00

12/17/2021 2:57:58 pm

Witness: Jeff Williams Page: 1

# WORK ORDER PROGRESS

**Work Order:** 20005285      **Description:** Construction of New Headquarters      **Open Date:** 02/12/2020    **Map Location:** 30000000  
**Customer:** 420002603      **Name:** JPEC OFFICE      **Closed Date:** 08/31/2021    **Loan:** AT 8      **Loan Project:** 1301-

**Construction**

Chg C	Description	Prior Balance	Feb 2021	Mar 2021	Apr 2021	May 2021	Jun 2021	Jul 2021	Total
31	MISCELLANEOUS	0.00	0.00	0.00	0.00	0.00	0.00	23,985.25	23,985.25
<b>Total For Construction:</b>		0.00	0.00	0.00	0.00	0.00	0.00	23,985.25	23,985.25

12/17/2021 2:59:00 pm

Witness: Jeff Williams Page: 1

# WORK ORDER PROGRESS

**Work Order:** 20005285      **Description:** Construction of New Headquarters

**Open Date:** 02/12/2020    **Map Location:** 30000000

**Customer:** 420002603

**Name:** JPEC OFFICE

**Closed Date:** 08/31/2021    **Loan:** AT 8      **Loan Project:** 1301-

**Construction**

Chg C	Description	Prior Balance	Mar 2021	Apr 2021	May 2021	Jun 2021	Jul 2021	Aug 2021	Total
31	MISCELLANEOUS	0.00	0.00	0.00	0.00	0.00	0.00	101,107.63	101,107.63
<b>Total For Construction:</b>		0.00	0.00	0.00	0.00	0.00	0.00	101,107.63	101,107.63



09/26/2021 11:22:59 am

Witness: Jeff Williams Page: 64

## Work Order Unitization & Distribution To Plant Accounts For Processing Period AUG 2021

### Construction Summary

Part: D

Inventory: H-0821

Actual Cost Ratio: 0.0000000

Aid Ratio: 0.0000000

Asset	Description	Quantity	Actual Cost	Aid	Supplemental			Total Net Cost	Adjusted Unit Cost
					Actual Cost	Aid	Net Cost		
GL Div: 0	GL Account: 390.05	GL Dept: 0							
3900500001 20005285	New Building Headquarters	0.00	15,367,278.81	0.00	0.00	0.00	0.00	15,367,278.81	15,367,278.81
	<b>Total For GL Account - 0 390.05 Dept - 0:</b>		15,367,278.81	0.00	0.00	0.00	0.00	15,367,278.81	
	<b>Total For Inventory - H-0821:</b>		15,367,278.81	0.00	0.00	0.00	0.00	15,367,278.81	

GL Div	GL Acct	Dept	Debit	Credit	Total Net Cost
0	390.05	0	15,367,278.81	.00	15,367,278.81
	<b>Total:</b>		<b>15,367,278.81</b>	<b>0.00</b>	<b>15,367,278.81</b>

06/18/2020 12:02:56 pm

## Work Order Unitization & Distribution To Plant Accounts For Processing Period MAY 2020

Witness: Jeff Williams  
 Page: 49

### Construction Summary

Part: D

Inventory: H-0520

Actual Cost Ratio: 0.0000000

Aid Ratio: 0.0000000

Asset	Description	Quantity	Actual Cost	Aid	Supplemental			Total Net Cost	Adjusted Unit Cost
					Actual Cost	Aid	Net Cost		
GL Div: 0	GL Account: 390.05	GL Dept: 0							
3900500001 20005283	New Building Headquarters	1.00	3,756,052.70	0.00	0.00	0.00	0.00	3,756,052.70	3,756,052.70
	<b>Total For GL Account - 0 390.05 Dept - 0:</b>		<u>3,756,052.70</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>3,756,052.70</u>	
	<b>Total For Inventory - H-0520:</b>		<u>3,756,052.70</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>3,756,052.70</u>	

GL Div	GL Acct	Dept	Debit	Credit	Total Net Cost
0	390.05	0	3,756,052.70	.00	3,756,052.70
		<b>Total:</b>	<b>3,756,052.70</b>	<b>0.00</b>	<b>3,756,052.70</b>

**JACKSON PURCHASE ENERGY CORPORATION  
PSC CASE NO. 2021-00358  
SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG'S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21  
REQUEST 18**

**RESPONSIBLE PERSON: Jeff Williams**

**COMPANY: Jackson Purchase Energy Corporation.**

**Request 18.** Provide a schedule showing the actual debt outstanding by month related to the monthly construction costs incurred for the new HQ building, the interest rate, and the interest expense by month related to this debt.

**Response 18.** Please see attached. For CWIP costs by month, please refer to AG 2-17.

**Jackson Purchase Energy Corporation**  
**Case No. 2021-00358**  
**AG 2 - 18**

<b>Date</b>	<b>Principle Balance</b>	<b>Interest</b>	<b>Average Rate</b>
1/31/2020	\$ 3,700,000.00	1,567.36	3.05
2/28/2020	\$ 3,700,000.00	6,571.61	3.05
3/31/2020	\$ 3,700,000.00	7,484.28	2.40
4/30/2020	\$ 3,872,000.00	6,550.80	2.40
5/31/2020	\$ 4,263,784.00	8,195.89	2.36
6/30/2020	\$ 4,831,970.18	9,526.15	2.48
7/31/2020	\$ 4,831,970.18	10,302.84	2.48
8/31/2020	\$ 4,857,343.18	10,326.46	2.47
9/30/2020	\$ 5,788,632.18	11,224.86	2.46
10/31/2020	\$ 7,721,856.41	14,723.34	2.45
11/30/2020	\$ 1,500,000.00	2,193.69	2.46
12/31/2020	\$ 3,000,000.00	1,499.03	2.46
1/31/2021	\$ 6,000,000.00	5,981.81	2.43
2/28/2021	\$ 7,200,000.00	10,476.00	2.42
3/31/2021	\$ 7,000,000.00	12,706.05	2.41
4/30/2021	\$ 6,500,000.00	14,209.73	2.42
5/31/2021	\$ 9,200,000.00	15,593.19	2.40
6/30/2021	\$ 12,600,000.00	21,294.00	2.40
7/31/2021	\$ 11,700,000.00	25,913.50	2.40
8/31/2021	\$ 14,300,000.00	28,182.94	2.39
9/30/2021	\$ 16,800,000.00	29,808.62	2.39
10/31/2021	\$ 16,800,000.00	34,538.00	2.39
11/30/2021	\$ -	4,461.33	2.39

**JACKSON PURCHASE ENERGY CORPORATION**  
**PSC CASE NO. 2021-00358**  
**SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG’S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21**  
**REQUEST 19**

**RESPONSIBLE PERSON:**           **Jeff Williams**

**COMPANY:**                       **Jackson Purchase Energy Corporation**

**Request 19.**           Refer to Exhibit 29 to the Company’s Application in this proceeding. The filing requirement is described as “The operating budget for each month of the period encompassing the proforma adjustments.”

a.       Describe how the Company defines the “period encompassing the proforma adjustments”?

b.       Confirm that in response to this filing requirement, the Company provided only the operating budget for each month of the historic test year.

c.       Confirm that the Company’s proposed proforma adjustments extend beyond the historic test year into the calendar years 2020 and 2021. Identify the date and/or period encompassing each of the proposed proforma adjustments.”

**Response 19.**           (a) The definition is the Commission’s term. Jackson Purchase chose to provide the operating budget for the test-year.

(b) Confirmed

(c) Confirmed. It is standard practice of the Commission to allow known and measurable changes, which is the purpose of pro forma adjustments. As Jackson Purchase started this case, we were in the Spring of 2021 and came close to being able to use 2020 as our test year, but results were not yet finalized through our auditor and accepted by our Board. Therefore, 2019 was the most relevant information available to start the process of a cost-of-service review. Jackson Purchase added some expenses in and removed others as much as was known and measurable. As we have the hearing in this case during February of 2022, known and measurable changes from 2021 and in some cases up to the hearing should be reflected where needed.

Some adjustments remove amounts out of the test year, in this case 2019. The FAC, ES, MRSM, Non-FAC PPA, Donations, 401k contributions, life insurance, interest income, year-end customers, depreciation, directors' expenses, FEMA credit, Capital credits, and normalizing the rate adjustment all used amounts in 2019 for the adjustments. The interest expense, wages and salaries and the headquarters adjustment use pro forma amounts from 2021. The right-of-way adjustment uses bids for 2021 and planned activity for 2022. Rate case costs used in the adjustment will be through the 2022 hearing.

**JACKSON PURCHASE ENERGY CORPORATION**  
**PSC CASE NO. 2021-00358**  
**SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG'S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21**  
**REQUEST 20**

**RESPONSIBLE PERSON:** Jeff Williams

**COMPANY:** Jackson Purchase Energy Corporation

**Request 20.** Provide a history of the Company's ROW maintenance activities and expense for the years 2016 through 2020 and the twelve months ending November 2021, including, but not limited to, the following information.

- a. Total ROW maintenance expense by FERC expense account.
- b. For each contractor, circuits trimmed, miles trimmed by circuit, expense by circuit, and cost per mile per circuit.

**Response 20.** (a) Please see Jackson Purchase's response to AG 1 – 18(b) which reflects ROW maintenance in account 593.

(b) Please see Jackson Purchase's response to AG 1 – 17(a). For 2020, please refer to Jackson Purchase's response to AG 1 – 38 pages 57 of 74. For 2021, please refer to the E&O report from November under Jackson Purchase's response to AG 2 – 24, pages 6 –

**JACKSON PURCHASE ENERGY CORPORATION**  
**PSC CASE NO. 2021-00358**  
**SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG'S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21**

**REQUEST 21**

**RESPONSIBLE PERSON: Jeff Williams**

**COMPANY: Jackson Purchase Energy Corporation.**

**Request 21.** Refer to Exhibit JRW-4. Indicate which bids were selected from those received. Indicate if WA Kendal was selected for the Wickliffe circuit as the low bid. If not, explain why not.

12, lines 6-18.

**Response 21.** Townsend was awarded the circuits as Kendall pulled out after submitting their bid and was not awarded the bid.



**JACKSON PURCHASE ENERGY CORPORATION  
PSC CASE NO. 2021-00358  
SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG'S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21  
REQUEST 22**

**RESPONSIBLE PERSON: Jeff Williams**

**COMPANY: Jackson Purchase Energy Corporation**

**Request 22.** Provide a similar comparison of all subsequent bids received for ROW maintenance and indicate which bids were selected from those received.

**Response 22.** Please see attachment. Townsend was selected as low bid on all circuits. Every other bidder chose to give only an hourly bid. The actual bid information is being filed under seal pursuant to a Motion for Confidential Treatment.

ROW Clearing Contractors

Company Information	Primary Contact	Secondary Contact
<p>Nelson Tree Service  3300 Office Park Drive  Dayton, Ohio 45439  (800) 522-4311</p>	<p>Mike Laughman  <a href="mailto:mike@nelsontree.com">mike@nelsontree.com</a></p>	
<p>Wolf Tree  3310 Greenway Drive  Knoxville, TN 37918  (865) 687-3400</p>	<p>(865) 363-0652  <a href="mailto:kbrooks@wolftree.com">kbrooks@wolftree.com</a></p>	
<p>Trees, LLC  650 North Sam Houston Pkwy East  Houston, TX 77060  (866) 865-9617</p>	<p><a href="mailto:abarbee@trees-llc.com">abarbee@trees-llc.com</a>  Adam Barbee</p>	
<p>W. A. Kendall  P.O. Box 831  Lawrenceville, GA 30046  (770) 963-6017</p>	<p>David Fiebelkorn  <a href="mailto:dfiebelkorn@wakendall.com">dfiebelkorn@wakendall.com</a></p>	
<p>Wright Tree Service  P.O.Box 1718  Des Moines, Iowa 50306  (800) 882-1216</p>	<p><a href="mailto:ckobernick@wrighttree.com">ckobernick@wrighttree.com</a>  Corey Kobernick  [REDACTED]</p>	
<p>Townsend Tree Service   Muncie, IN</p>	<p>Tracy Kinslow  <a href="mailto:tkinslow@townsendtree.com">tkinslow@townsendtree.com</a></p>	
<p>McKenzie Tree Service  2141 TN Ave N  Parsons, TN 38363  731-847-8733</p>	<p>Keith  <a href="mailto:jkroach5@gmail.com">jkroach5@gmail.com</a></p>	
<p>Asplundh Tree Expert Co.  202 Two Oaks Dr.  Nicholasville, KY 40356</p>	<p>Attn: Mr. Dave Ellifritx  Bobby King - 859-304-3700  <a href="mailto:bobbyking@asplundh.com">bobbyking@asplundh.com</a></p>	
<p>Davey Tree Expert, LLC  1500 North Mantua St.  Kent, OH 44240</p>	<p>Laura Wimer  <a href="mailto:Laura.Wimer@davey.com">Laura.Wimer@davey.com</a></p>	
<p>Phillips Tree Service</p>	<p>Brent Blanchard  <a href="mailto:bblanchard3@phillipstreeexperts.com">bblanchard3@phillipstreeexperts.com</a>  [REDACTED]</p>	

**Townsend Tree Service**

**Hourly Crews**

Foreman  
Helper  
Truck (55'-60')  
Chipper  
Chain Saw



**Wolf Tree**

**Hourly Crews**

Foreman  
Helper  
Truck (55'-60')  
Chipper  
Pickup



**Trees, LLC**

**Hourly Crews**

Foreman  
Helper  
Truck (55'-60')  
Chipper  
Pickup



**Wright Tree Service**

**Hourly Crews**

Foreman  
Helper  
Truck (55'-60')  
Chipper  
Pickup



**W. A. Kendall**

**Hourly Crews**

Foreman  
Helper  
Truck (55'-60')  
Chipper  
Pickup



**Townsend Tree Service  
Circuit Bids**

**2022**

**Substation/Circuit**  
Kansas 214-Lowes  
Ledbetter 244-Ledbetter  
Little Union 224-US 60 West  
Olivet Church Road 214-Olivet Church Rd  
Reidland 214-Ken Mar Rd  
Smithland 214-Smithland  
Grand Rivers 214-luka  
Grand Rivers 254-Averitt GR #2  
Little Union 244-Roy Lee Rd  
New York 214-Hinkleville  
New York 234-Blandville  
Smithland 224-Tiline  
Smithland 244-Mitchell Store

**Circuit Bid**



**2023**

**Substation/Circuit**  
Grand Rivers 244-Pelican GR #1  
Ragland 224-Ragland  
Strawberry Hill 224-Hansen Rd  
Calvert City 214-Hwy 95  
Ledbetter 224-US 60 East  
Maxon 214-Maxon Rd  
Maxon 224-Express  
Possum Trot 234-Hwy 95  
Calvert City 224-Calvert Heights  
Coleman Road 224-Conrad Heights  
Freemont 244-Freemont  
High Point 224-Carneal Rd  
Joy 214-Hampton South  
Joy 254-Lola  
Kansas 244-Pottsville  
LaCenter 224-Oscar  
New York 254-Slater

**Circuit Bid**



**2024**

**2025**

**JACKSON PURCHASE ENERGY CORPORATION  
PSC CASE NO. 2021-00358  
SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG'S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21  
REQUEST 23**

**RESPONSIBLE PERSON: Jeff Williams**

**COMPANY: Jackson Purchase Energy Corporation.**

**Request 23.** Refer to page 52 of the attachment to the response to AG 1-38,  
please provide the following:

- a. The graph Ward Morgan provided to the board on outage occurrences.
- b. The 2021 ROW management plan provided at the meeting.

**Response 23.**

(a) Please refer to AG 1 – 38 pages 3 and 4

(b) Please refer to AG 1- 38 pages 61-64.

**JACKSON PURCHASE ENERGY CORPORATION  
PSC CASE NO. 2021-00358  
SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG'S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21  
REQUEST 24**

**RESPONSIBLE PERSON: Jeff Williams**

**COMPANY: Jackson Purchase Energy Corporation.**

**Request 24.** Please provide each Engineering and Operations report provided to the Board of Directors for the years 2019 to the present.

**Response 24.** Please see attached.

## MEMORANDUM

**Date:** January 15, 2019

**To:** Mr. Greg Grissom  
JPEC Board of Directors

**From:** Engineering and Operations Departments

**Subject:** Report to the Board for the month of December, 2018.  
Distribution Services, Engineering and Line Operations

### **CAPITAL PROJECTS**

### **ONGOING PROJECTS**

#### **Economic Development:**

- New commercial development
  - Crews have begun installing conduit along New Holt Rd for new commercial and subdivision development.

#### **Flood Projects:**

- River Road – Crews have one pole left to change out in the middle of a field. Waiting on either frozen or dry ground.
- Smithland Dam – Crews have completed a large part of this project by installing URD cable under the transmission lines. Recent rains have slowed finishing this project.
- Recent light flooding has identified a couple more projects engineering would like to correct. Browns Campground and the bridge lights at the Tennessee River and I-24 have been added to the list of future projects to complete.
- I had a conversation with Greg Joles at Grassy Lake Lodge to let him know that when Cairo flood gage goes to 50' we will be deenergizing the line. We are also drawing up plans to begin changing all poles out in the area to 60' or taller to withstand a flood stage up to 60'.

#### **Other Work:**

- Cody and I met with Jeff Smith at Two Rivers Fisheries in Wickliffe. We discussed the recent billing issue and Jeff was happy that JPEC corrected the mistake in a timely manner. We discussed his future plans and assured him that JPEC is here as a partner. Jeff mentioned a LED lighting upgrade and I recommended to him our DSM program for lighting change out. I emailed that tariff to him and encouraged him to contact us at his earliest convenience because JPEC did not know how long the PSC will keep the program in place.

- JPEC has received the draft of JPEC’s Arc Flash study. Initial results show no major concerns in the overall system fault current. There are a few downline protective devices that will be addressed for the proper fault current rating. Large padmount transformers with voltages of 277/480 were expected to show up in the report as needing special attention on how work is performed.
- Rodney has returned to work to help keep material orders filled until a new warehouse person starts. Rodney will then help train that person on how work is performed today.
- KY Wired pole change outs continue in Livingston Co.

**LINE INSPECTION**

- The Line Inspector is continuing work on Kevil Substation.
- Paducah Power has requested fiber attachments from Highway 45 along Contest Road, Luigs Lane and Durbin Lane to 6630 Durbin Lane. Engineering has approved this request.
- Keeping track of code violation corrections as well as attachment transfers and requests is ongoing.

**SYSTEM INFORMATION**

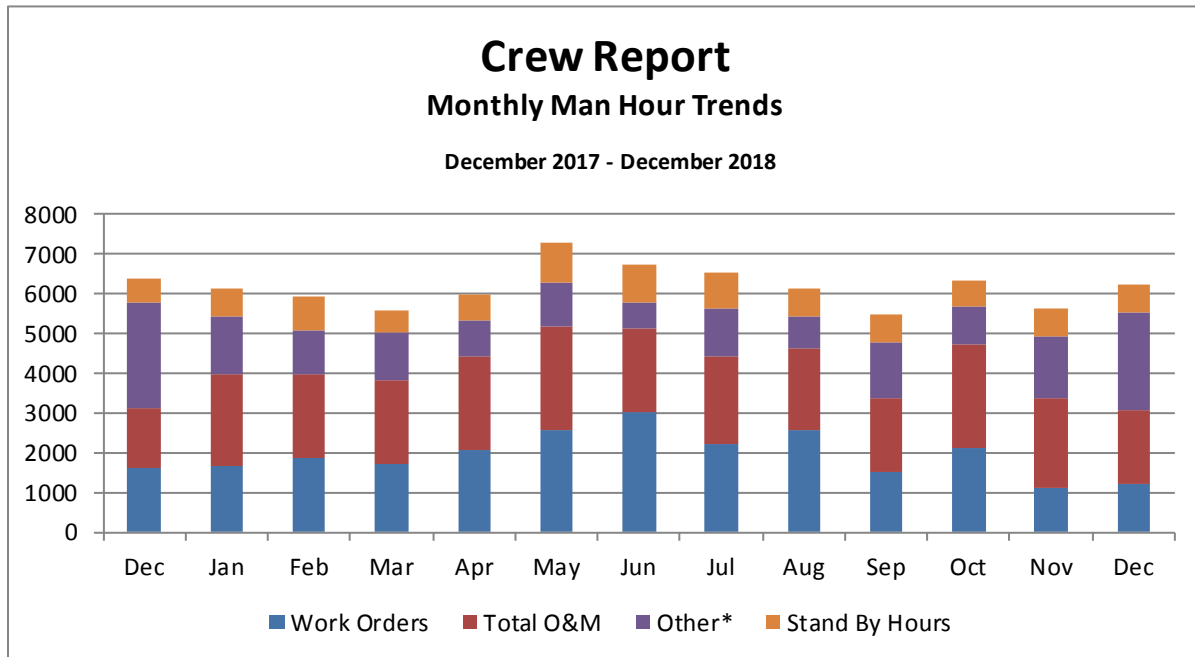
No substation experienced a new peak during the month of December, 2018.

The Totals for the Rural System were:

Rural System Peak ..... 108,577 kW  
Total Rural System Energy Throughput..... 56,274,266 kWh



**LINE OPERATIONS**



For the month of December our line crews spent 1,229.5 man hours (22.2%) on work orders, 605.0 man hours (10.9%) on operations, 1,236.5 man hours (22.3%) on maintenance items and 2465.88 man hours (44.5%) on holidays, vacation, sick, training, safety and inclement weather.

The standby crew was called out 43 times during December, totaling 359 hours of actual overtime paid during the month.

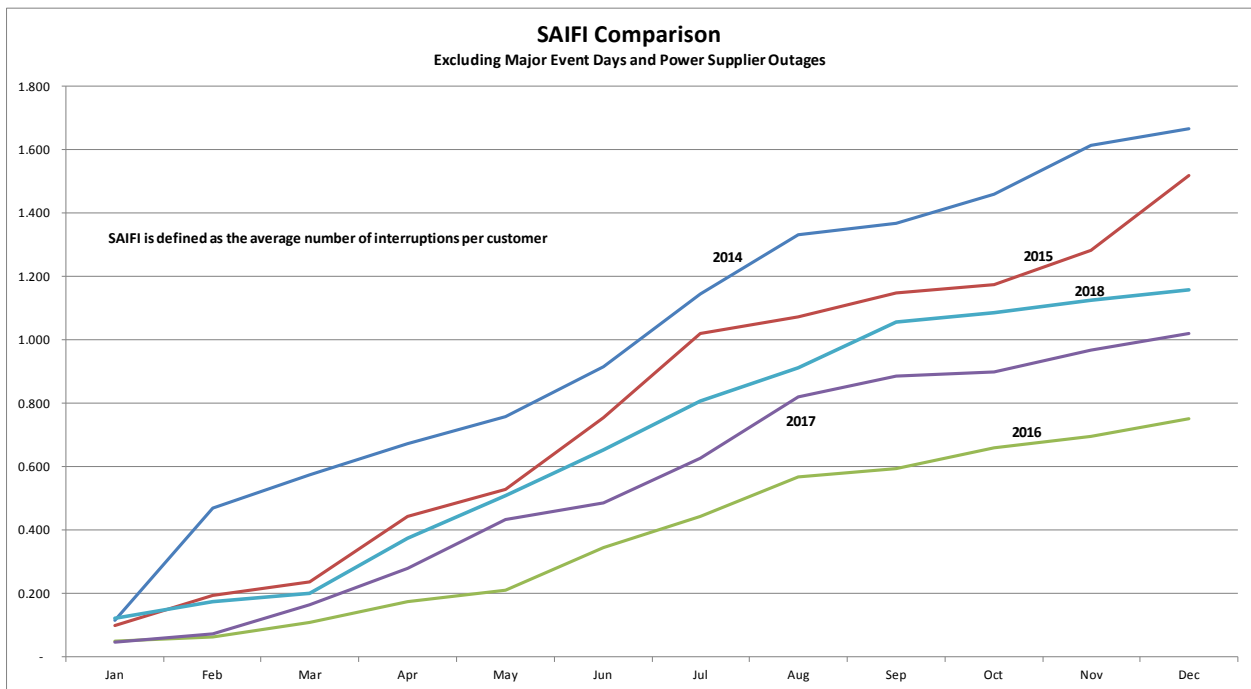
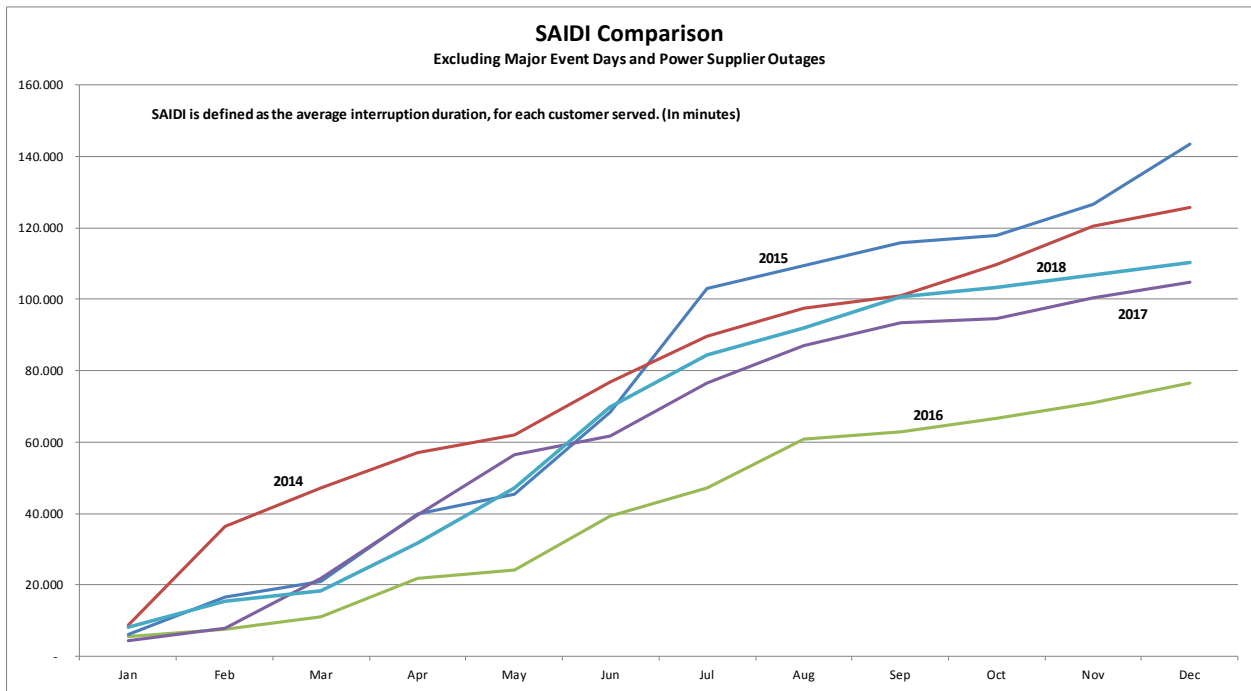
**Right-of-Way:**

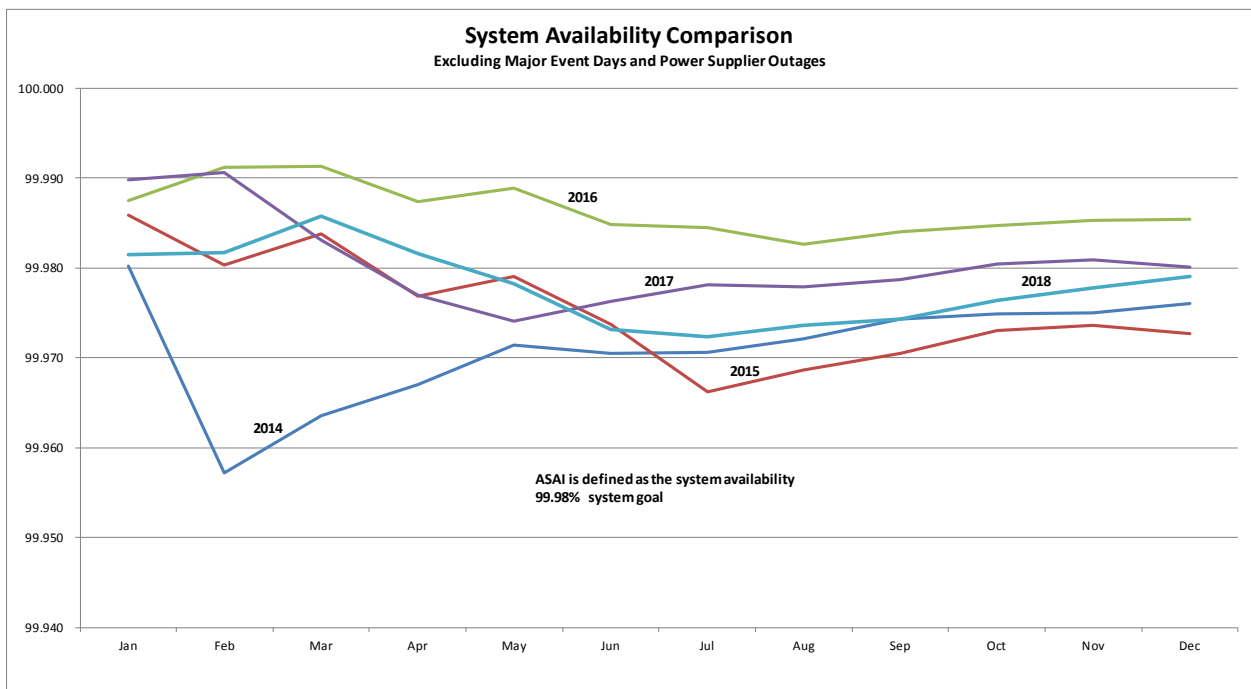
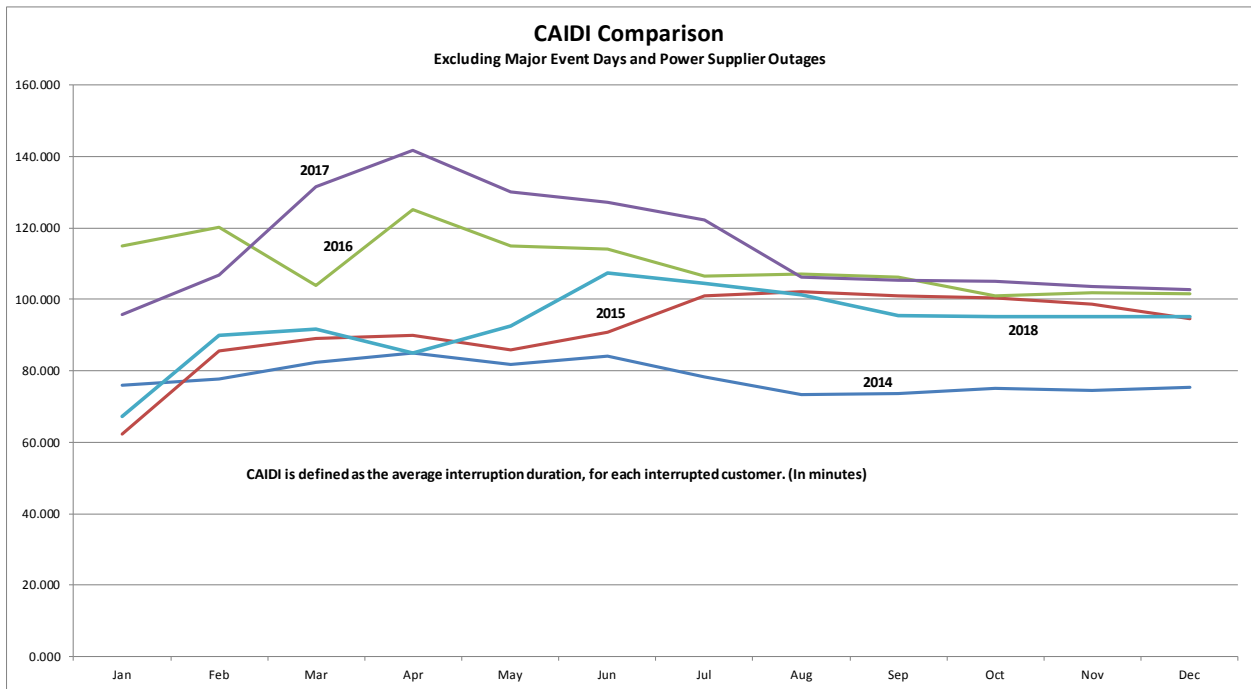
The Right-of-Way trimming crew is working on Freemont.

Freemont

**Outages Indices:**

# of Outages – 101  
 Customers Affected – 1,036  
 Customer Hours Total – 1.766.05





## MEMORANDUM

**Date:** February 15, 2019

**To:** Mr. Greg Grissom  
JPEC Board of Directors

**From:** Engineering and Operations Departments

**Subject:** Report to the Board for the month of January 2019.  
Distribution Services, Engineering and Line Operations

### **CAPITAL PROJECTS**

For the month of December 2018, 146 work orders were closed at a total cost of \$390,886.77. Of those, 36 were categorized "New Construction" at an average cost of \$2,509.57.

Figures for January were not available at the time of this report

### **ONGOING PROJECTS**

#### **Economic Development:**

- New commercial development
  - We have received word that Menards is moving forward. Engineering is reviewing plans.
  - Crews continue to work on New Holt Road
- Industrial development
  - I sent an email to Ironton Enterprises asking about project status. I have not received any feedback.
  - I have spoken with a potential 10-30 MW load that would be located in a section of the old Gerdau building in Calvert City. The prospect is collecting load data which I will forward to BREC for sample billing.

#### **Flood Projects:**

- River Road – Complete
- Smithland Dam – Crews were able to install URD cable before the owner flooded the area for hunting. We still lack 3-4 days of work to complete project.
- Operations currently has 3-4 meters off for high flood levels.

#### **Other Work:**

- KY Wired pole change out continues in McCracken county along Clinton Road.
- On February 14, Cody, Kristy, Tony and myself went to Big Rivers Electric to discuss BREC's reliability numbers (included in report) and future transmission projects. Topics included:
  - 15 worst performing JPEC station review and remediation plans
  - Radial supply mitigation plans
    - Finish installing automatic restoration and sectionalization (ARS) sites

- BREC is looking at a possible KU transmission tie at Kansas
- Fiber plan review
- Coop substation inspection report
- Other projects BREC has planned this year at JPEC:
  - Reclaim/widen right-of-way to original width and remove hazard trees on 50 miles of transmission lines in JPEC territory
  - Replace last set of metering CTs in Vulcan Substation
  - Replace several pole structures in the Kansas tap when we upgrade station later this fall

**LINE INSPECTION**

- The Line Inspector has finished work on Kevil Substation and will be working on Palma Substation.
- Paducah Power attached their fiber that runs along Contest, Luigs to Durbin Lane; 27 attachments.
- Mediacom requested two new attachments on Boone Hill Road.
- Keeping track of code violation corrections as well as attachment transfers and requests is ongoing.

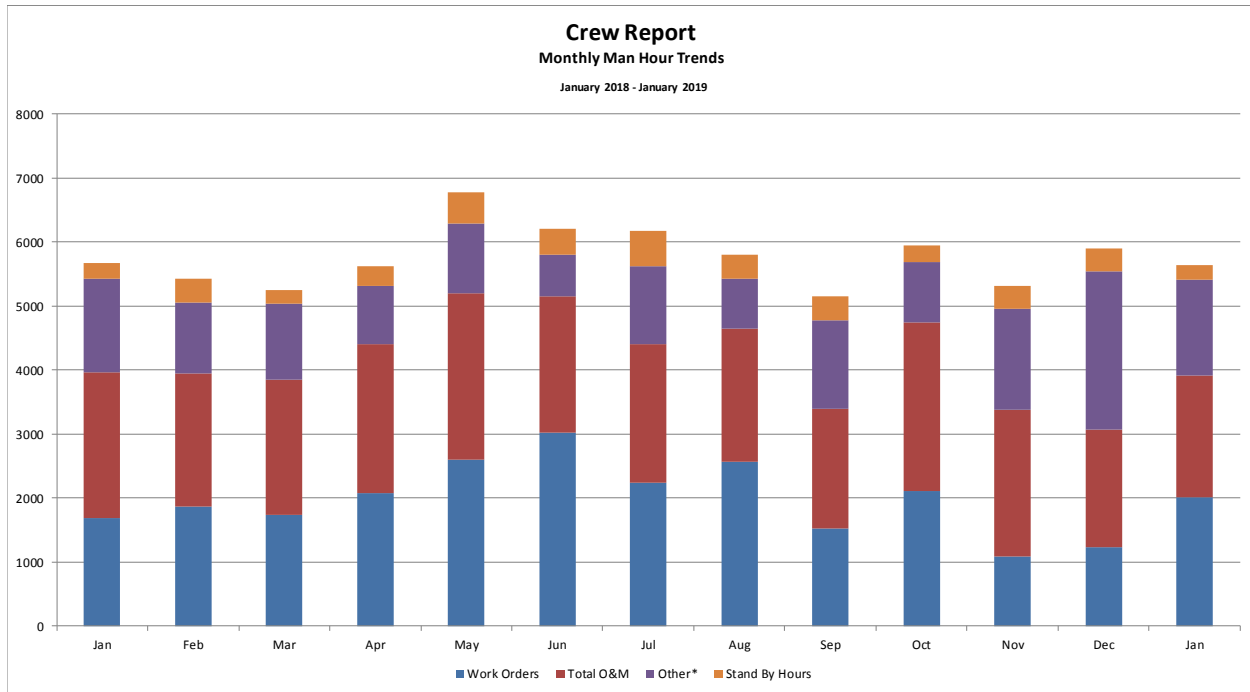
**SYSTEM INFORMATION**

No substation experienced a new peak during the month of January, 2019.

The Totals for the Rural System were:

Rural System Peak .....	121,713 kW
Total Rural System Energy Throughput.....	60,533,907 kWh

**LINE OPERATIONS**



For the month of January our line crews spent 2,008.5 man hours (37.1%) on work orders, 757.0 man hours (14.0%) on operations, 1,150.0 man hours (21.2%) on maintenance items and 1,500.5 man hours (27.7%) on holidays, vacation, sick, training, safety and inclement weather.

The standby crew was called out 28 times during January, totaling 219 hours of actual overtime paid during the month.

**Right-of-Way:**

The Right-of-Way trimming crew is working on Freemont.

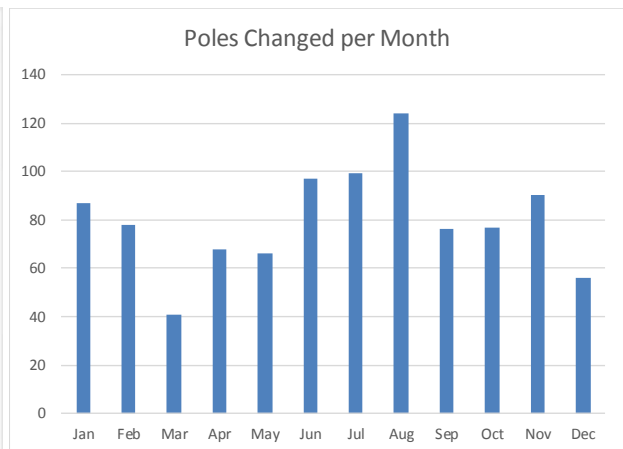
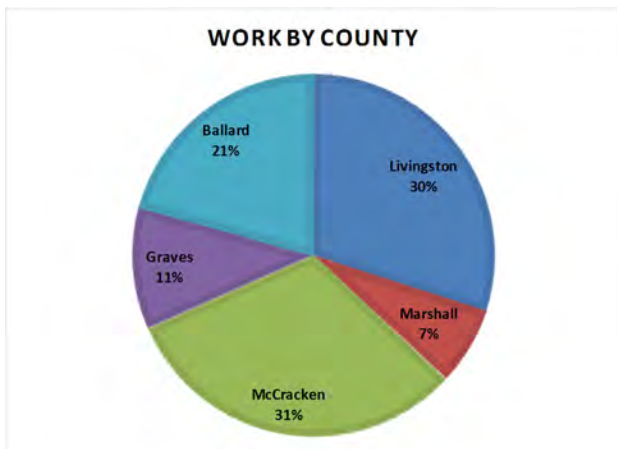
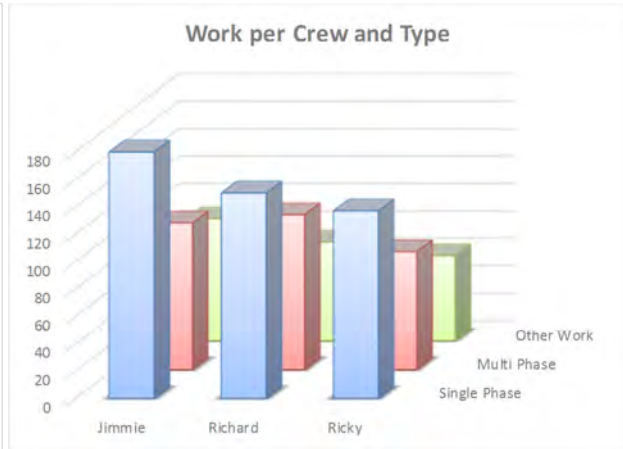
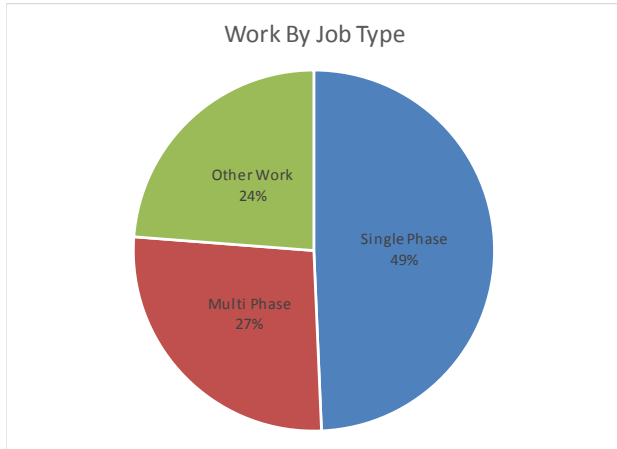
### Elliot Work Order Analysis:

Number of work orders – 685 (711 includes all)

Number of poles changed out – 960

Cost per pole replacement –

- Single phase - \$1,500.17
- Multi phase - \$2,450.89
- Other work - \$1,156.83

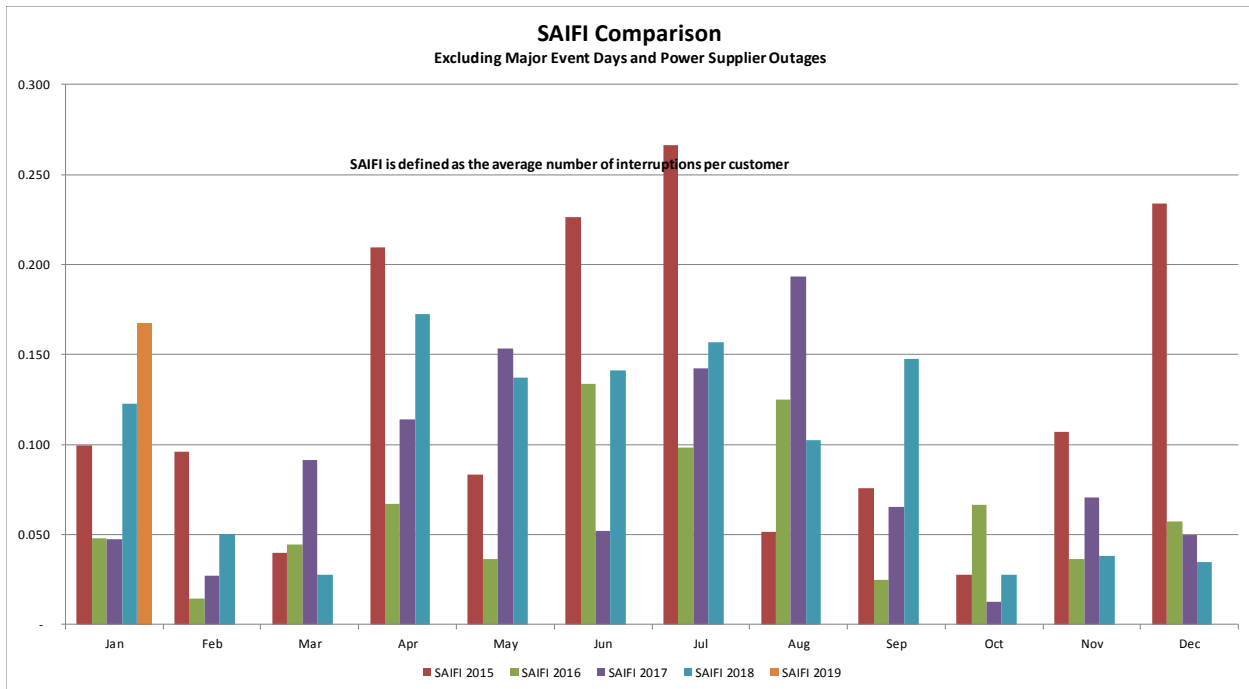
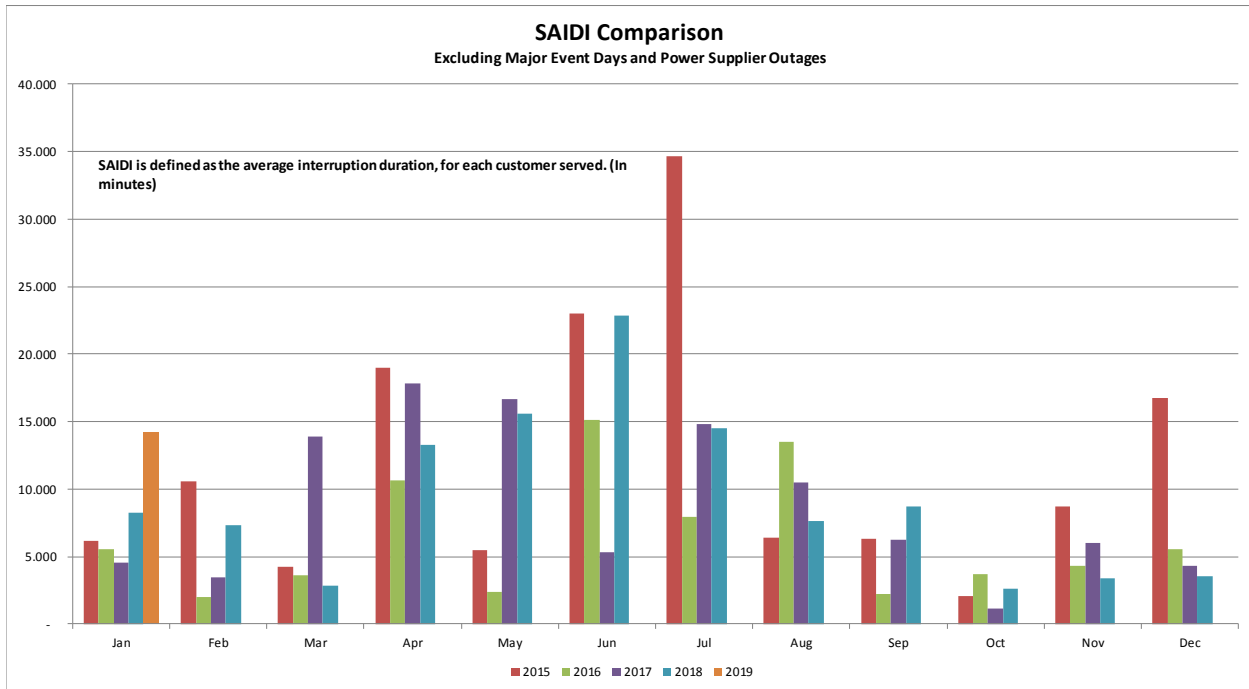


## January Outages Indices:

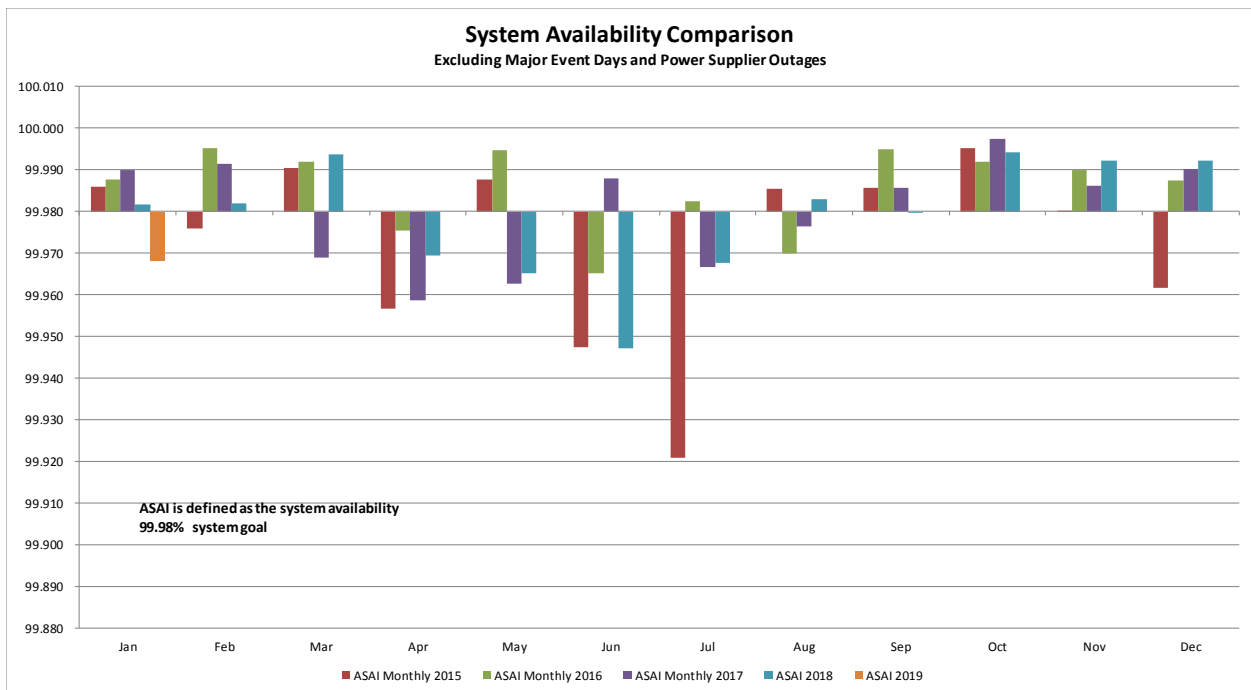
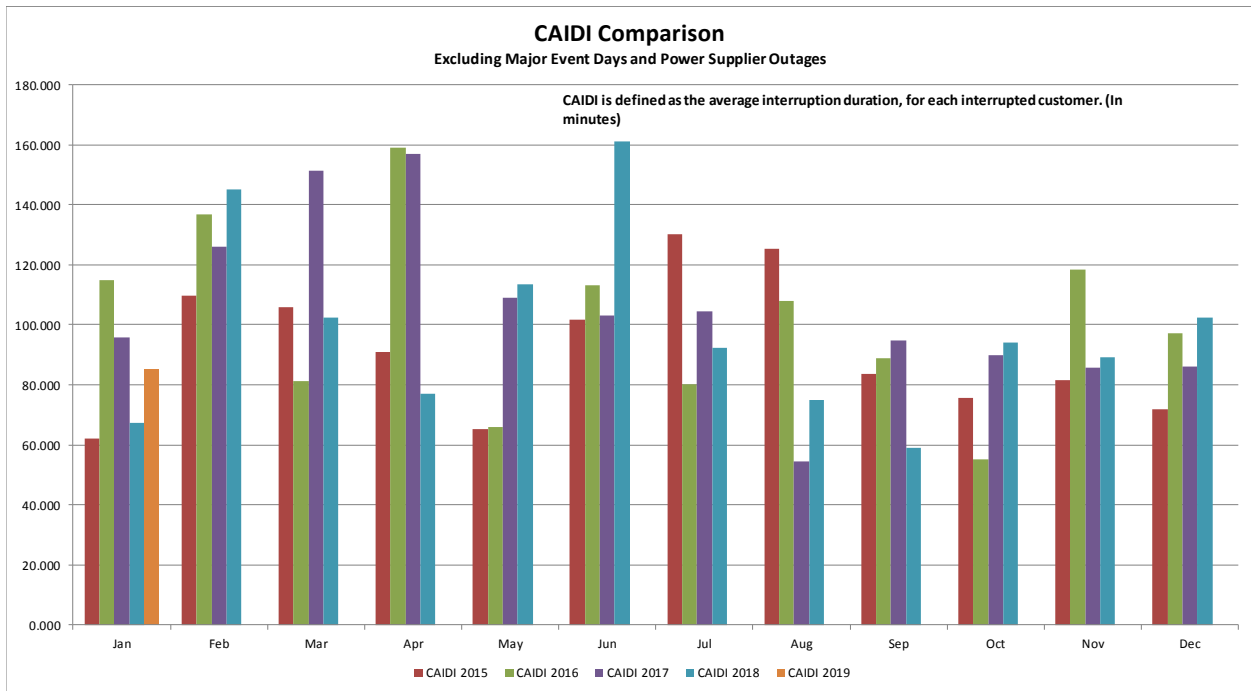
# of Outages – 77

Customers Affected – 5,000

Customer Hours Total – 7,078.35







# 2018 Outage Indices

Jackson purchase energy corporation

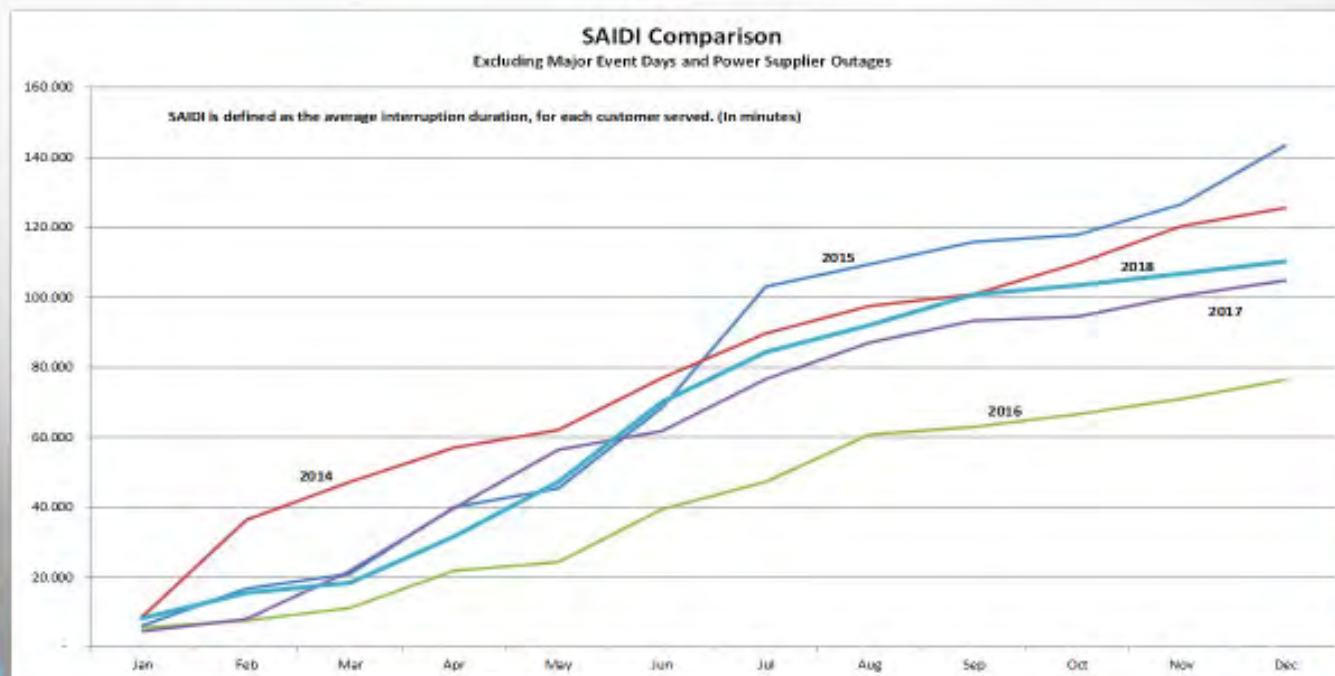


## By the Numbers

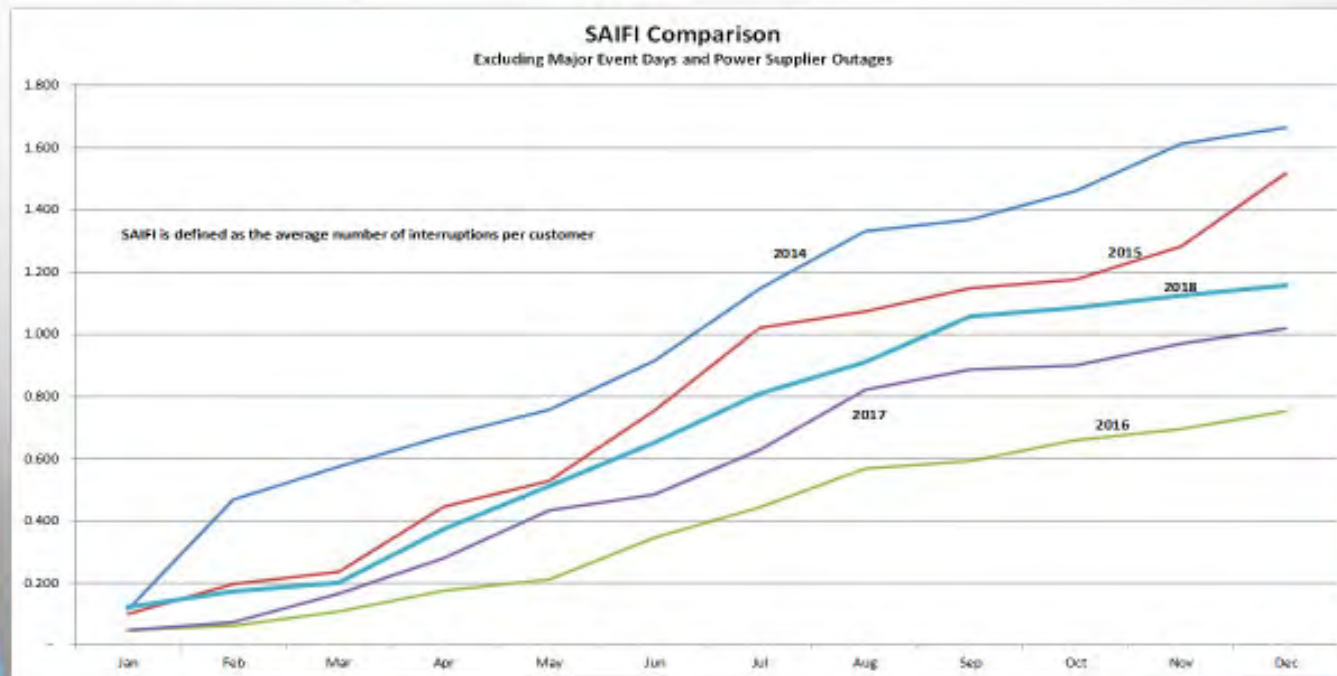
	2014	2015	2016	2017	2018
<b># of Outages</b>	1,219	1,160	988	1,149	1,264
<b>Customers Affected</b>	48,475	44,255	22,157	30,355	34,422
<b>Customer Minutes</b>	3,656,145	4,184,184	2,250,687	3,120,621	3,279,491
<b>Customer Hours</b>	60,935.75	69,736.40	37,511.45	52,010.35	54,658.18
<b>SAIDI</b>	125.58	143.45	76.48	104.77	110.28
<b>SAIFI</b>	1.67	1.52	0.75	1.02	1.16
<b>CAIDI</b>	75.42	94.55	101.58	102.80	95.27
<b>ASAI</b>	99.98	99.97	99.99	99.98	99.98
<b>Avg. Total Customers</b>	29,113.67	29,168.17	29,427.92	29,786.42	29,736.67

- Excludes Major Event Days, Power Supply Outages and Member Caused Outages

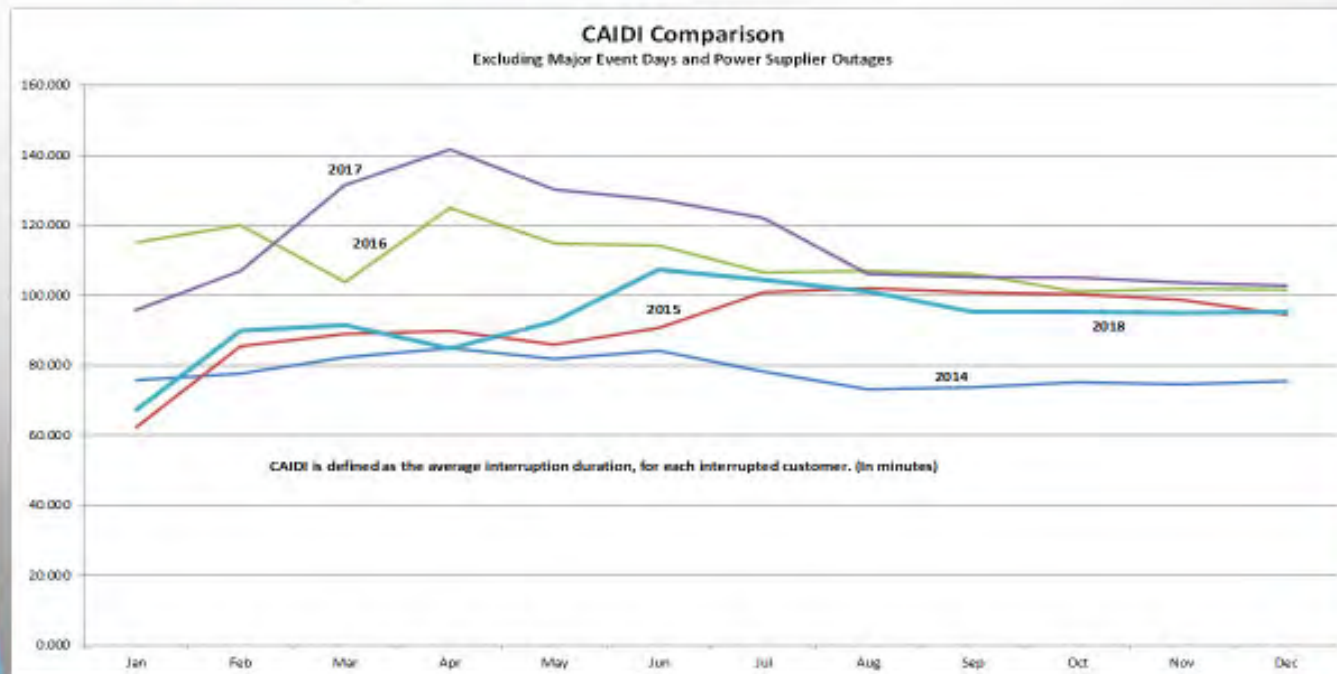
## By the Numbers



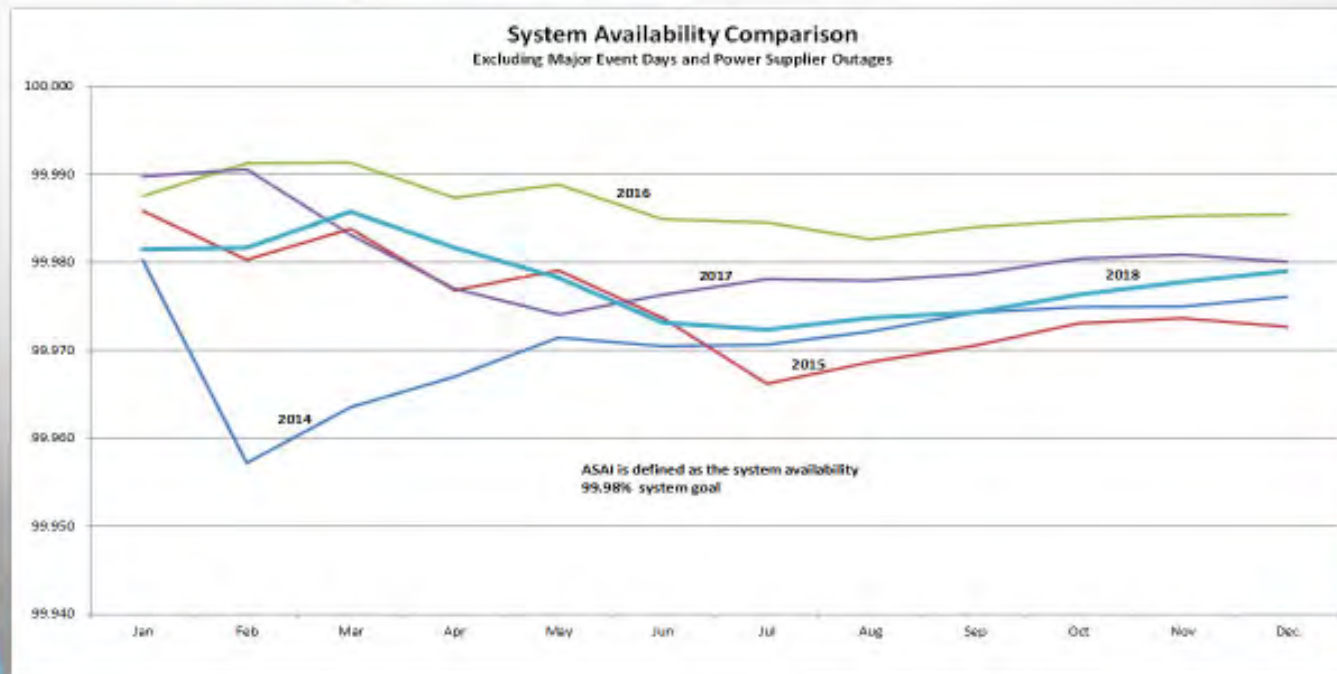
## By the Numbers



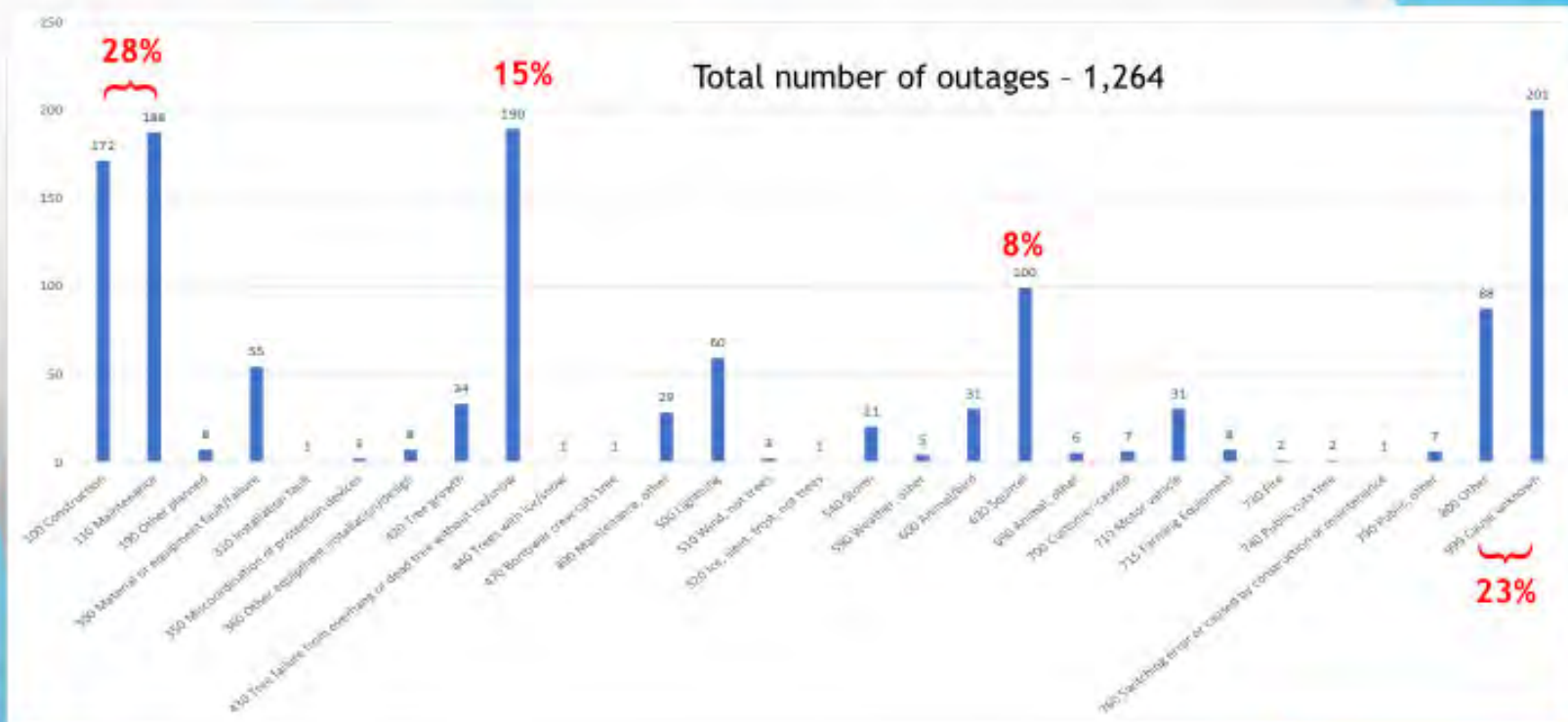
## By the Numbers



## By the Numbers

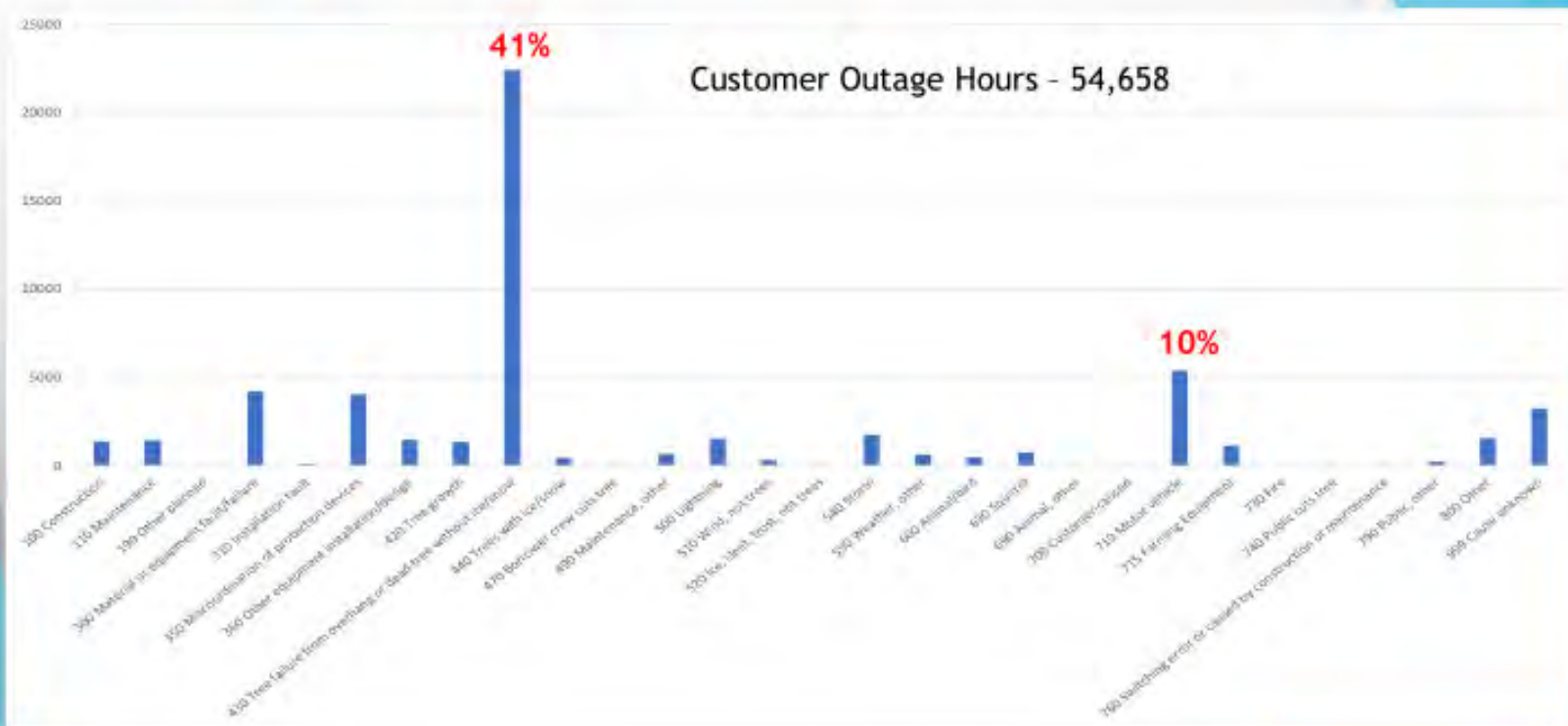


# Outages by Cause

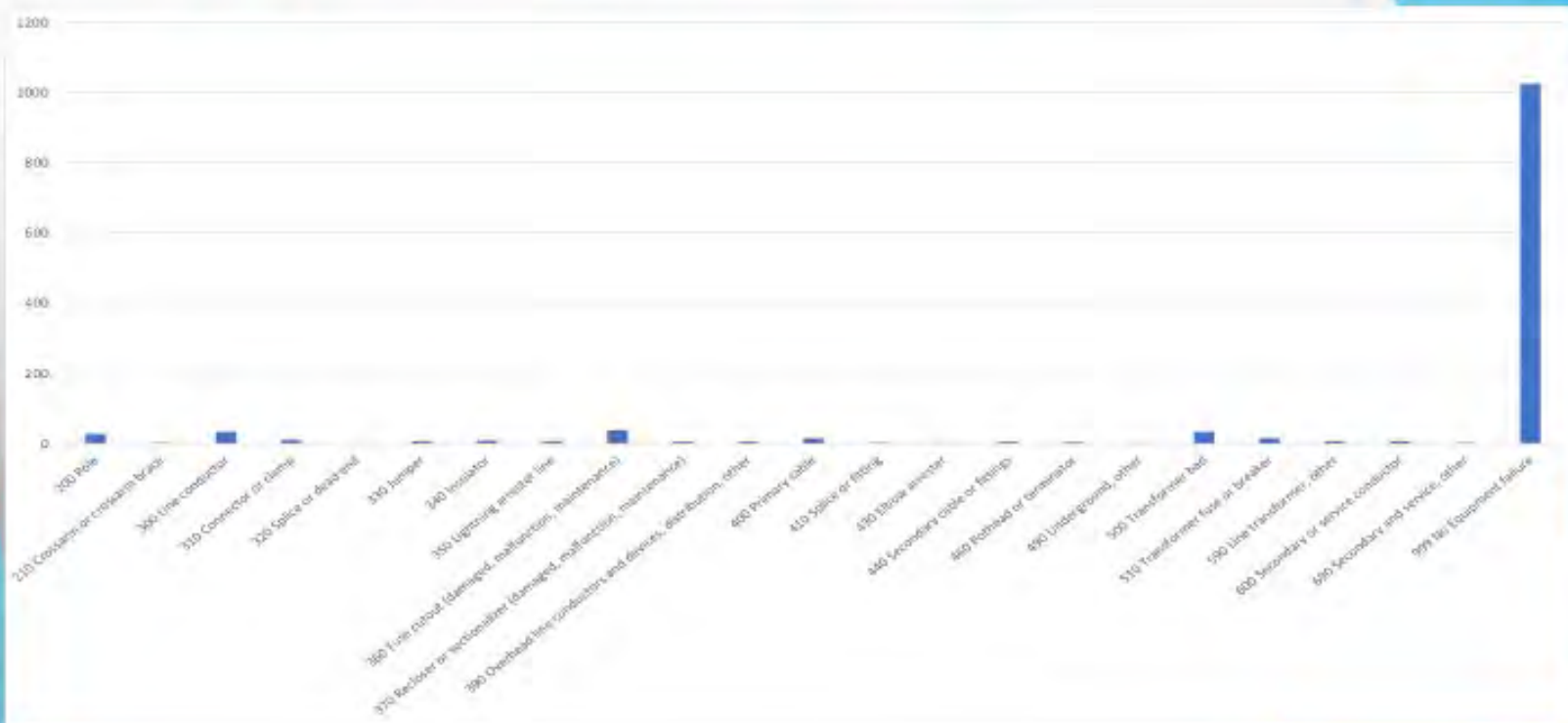




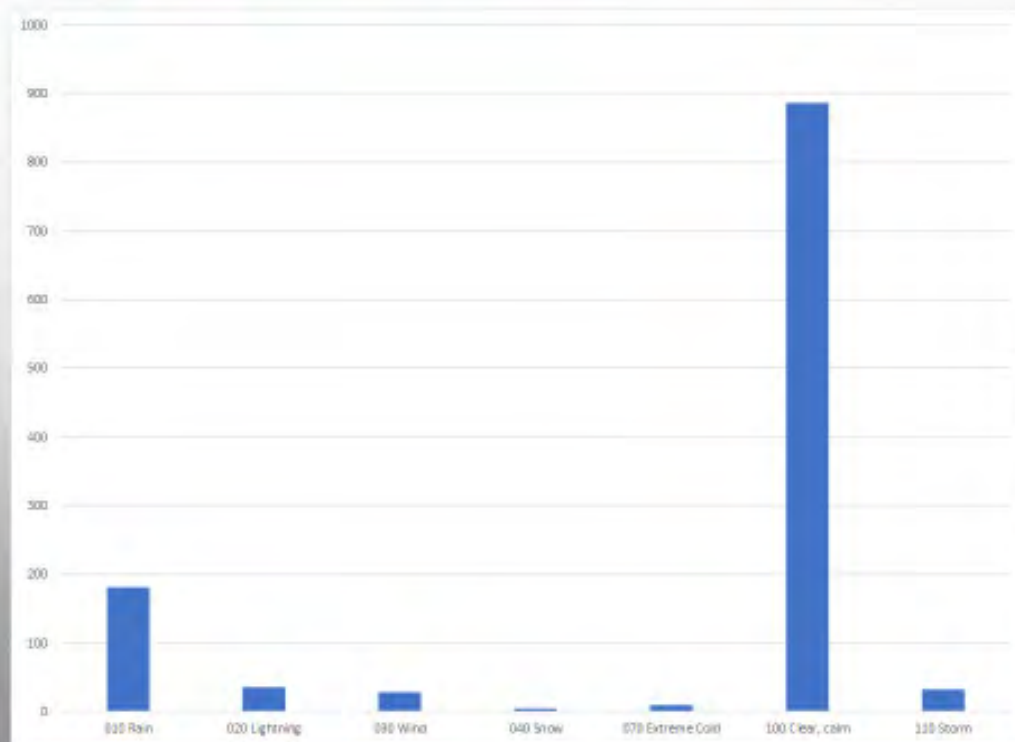
## Outages by Cause Hrs.



## Equipment/Material Failure



## Outage by Weather



# **Engineering & Operations**

## **Board Report**

March 28, 2019

### **CAPITAL PROJECTS**

For the month of January 2019, 148 work orders were closed at a total cost of \$440,836.75. Of those, 39 were categorized "New Construction" at an average cost of \$3,957.70.

Figures for February were not available at the time of this report.

### **ONGOING PROJECTS**

#### **Economic Development:**

- New commercial development
  - We have been told Menards is moving forward but we have yet to be given the go ahead to start running service.
  - Crews continue to work on New Holt Road
- New Residential development
  - Flagging work has started in the new development on Holt Road across from St. Andrews Dr.

#### **Other Work:**

- KY Wired pole change out continues in McCracken county along Clinton Road.
- VPs are working together to update our emergency response plan. The bulk of the plan will be updated by 3/31. A new IT restoration plan will be written and inserted in the over ERP when complete.
- Engineering is working with member services to revamp service order work flow processes by using NISC and SmartTrack. This will allow anyone in the organization to track the process of a job. Cody Edmunds is working on this project.

### **LINE INSPECTION**

- The Line Inspector has finished work on Kevil Substation and will be working on Palma Substation.
- Quality Resources will be starting in the next couple of weeks with a contract inspector to help make sure we are meeting our two-year commitment to PSC regulations.
- Paducah Power attached their fiber that runs along Contest, Luigs to Durbin Lane; 27 attachments.
- Mediacom requested two new attachments on Boone Hill Road.

**LINE INSPECTION**

- The Line Inspector is working on Palma Substation.
- She spent considerable time this past month sending out transfer notices.
- Comcast has requested two new attachments at 3910 Old Hwy 45.
- Keeping track of code violation corrections as well as attachment transfers and requests is ongoing.

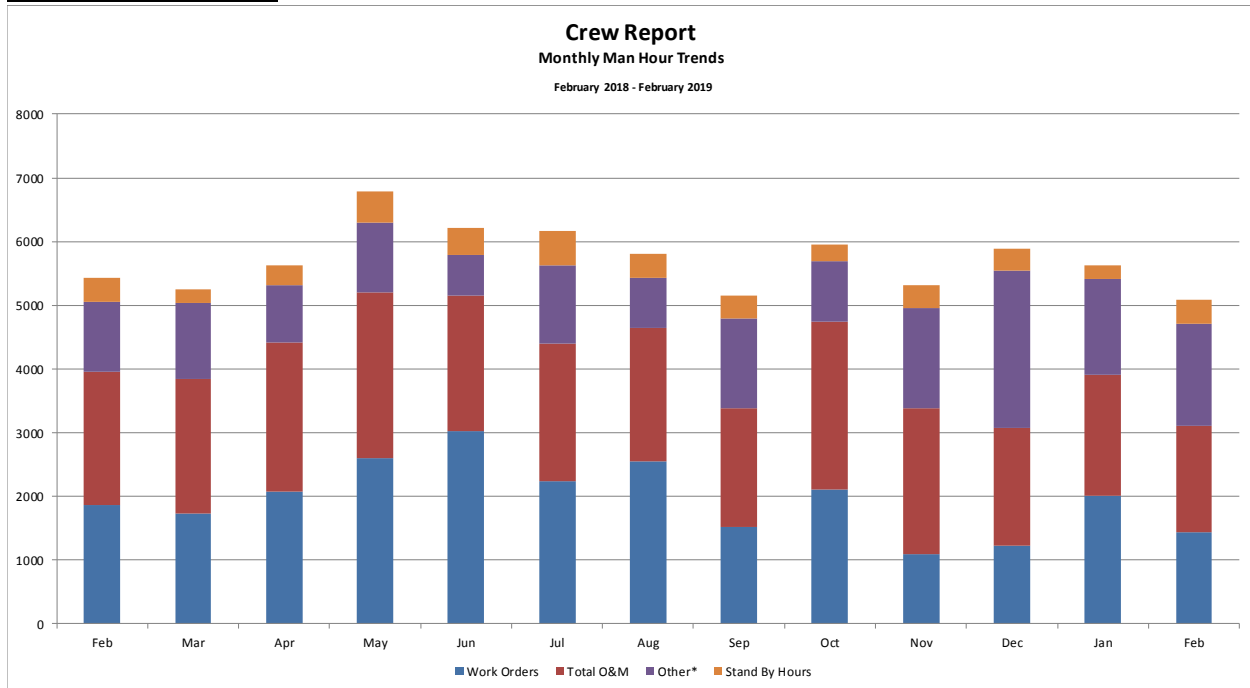
**SYSTEM INFORMATION**

No substation experienced a new peak during the month of February 2019.

The Totals for the Rural System were:

Rural System Peak ..... 107,564 kW  
 Total Rural System Energy Throughput..... 49,251,497 kWh

**LINE OPERATIONS**



For the month of February our line crews spent 1,440.5 man hours (30.5%) on work orders, 500.5 man hours (10.6%) on operations, 1,167.5 man hours (24.8%) on maintenance items and 1,607.8 man hours (34.1%) on holidays, vacation, sick, training, safety and inclement weather.

The standby crew was called out 44 times during February, totaling 375.5 hours of actual overtime paid during the month.

**Right-of-Way:**

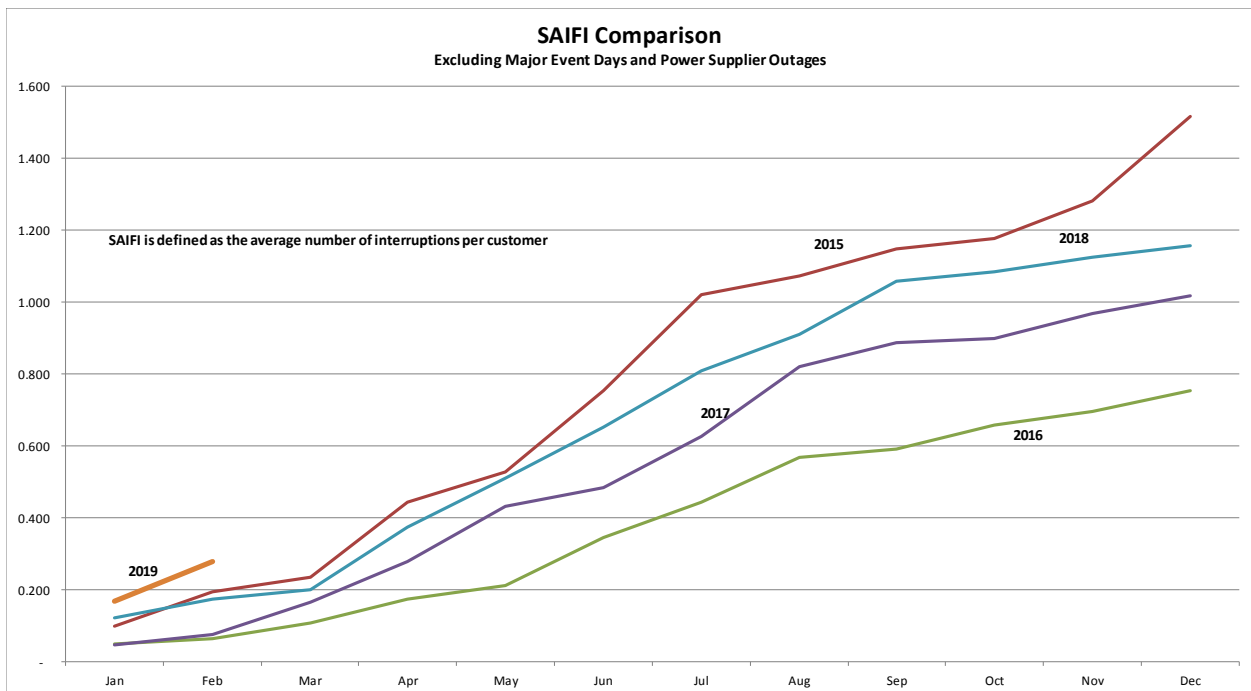
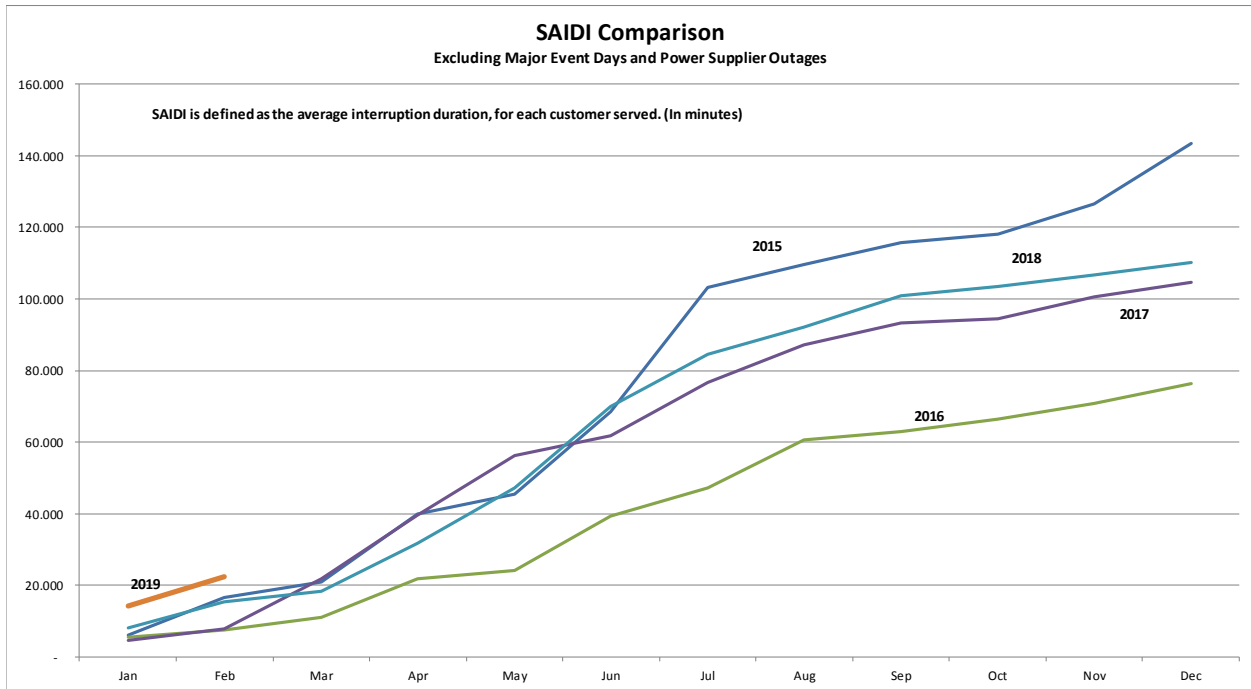
The Townsend Right-of-Way crew is continuing work on the Symsonia Circuit out of Freemont Substation.

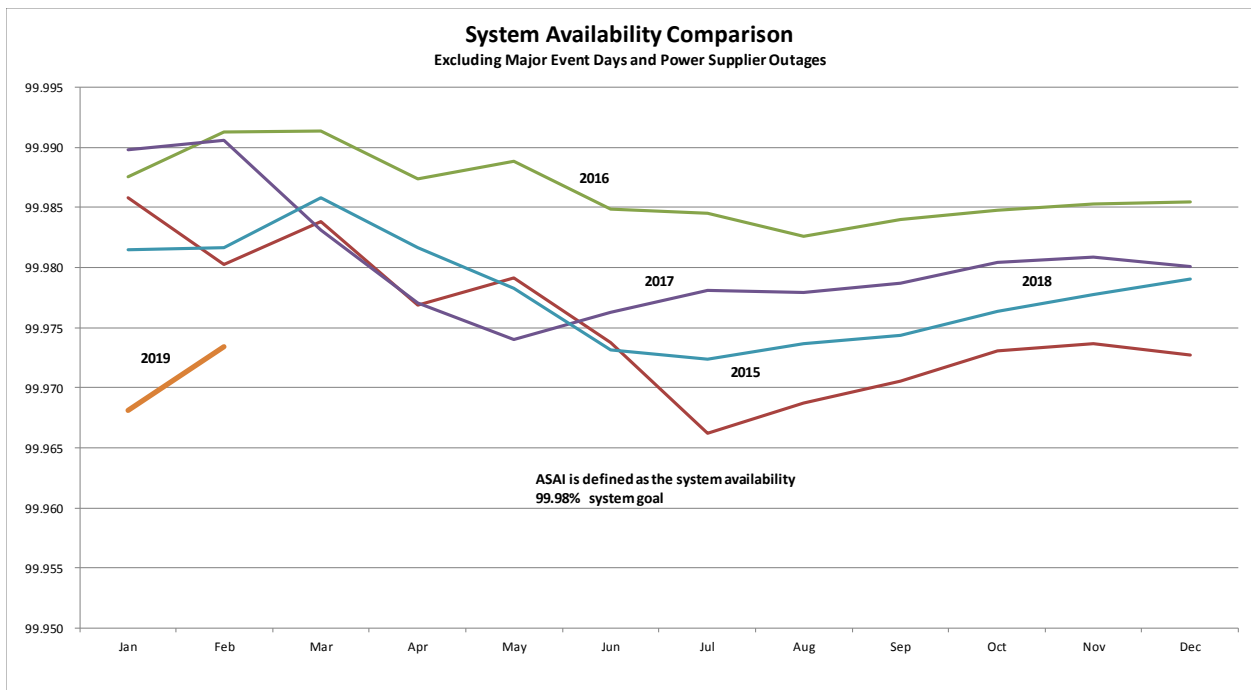
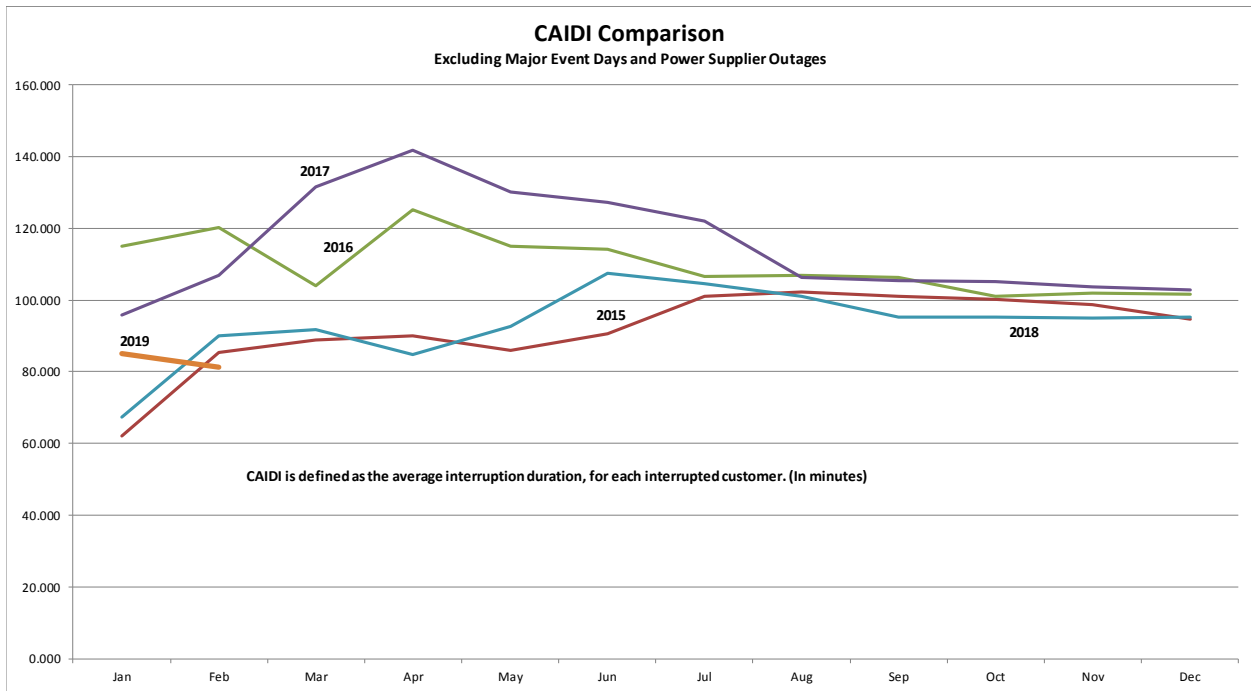
**Outages Indices:**

# of Outages – 112

Customers Affected – 3,304

Customer Hours Total – 4,166





## MEMORANDUM

**Date:** April, 2019

**To:** Mr. Greg Grissom  
JPEC Board of Directors

**From:** Engineering and Operations Departments

**Subject:** Report to the Board for the month of February, 2019.  
Distribution Services, Engineering and Line Operations

### **CAPITAL PROJECTS**

For the month of January, 2019, 148 work orders were closed at a total cost of \$440,836.75. Of those, 39 were categorized "New Construction" at an average cost of \$3,957.70.

Figures for February were not available at the time of this report.

### **ONGOING PROJECTS**

#### **Economic Development:**

- New commercial development
  - We have been told Menards is moving forward but we have yet to be given the go ahead to start running service.
  - Crews continue to work on New Holt Road
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#### **Other Work:**

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- VPs are working together to update our emergency response plan. The bulk of the plan will be updated by 3/31. A new IT restoration plan will be written and inserted in the over ERP when complete.
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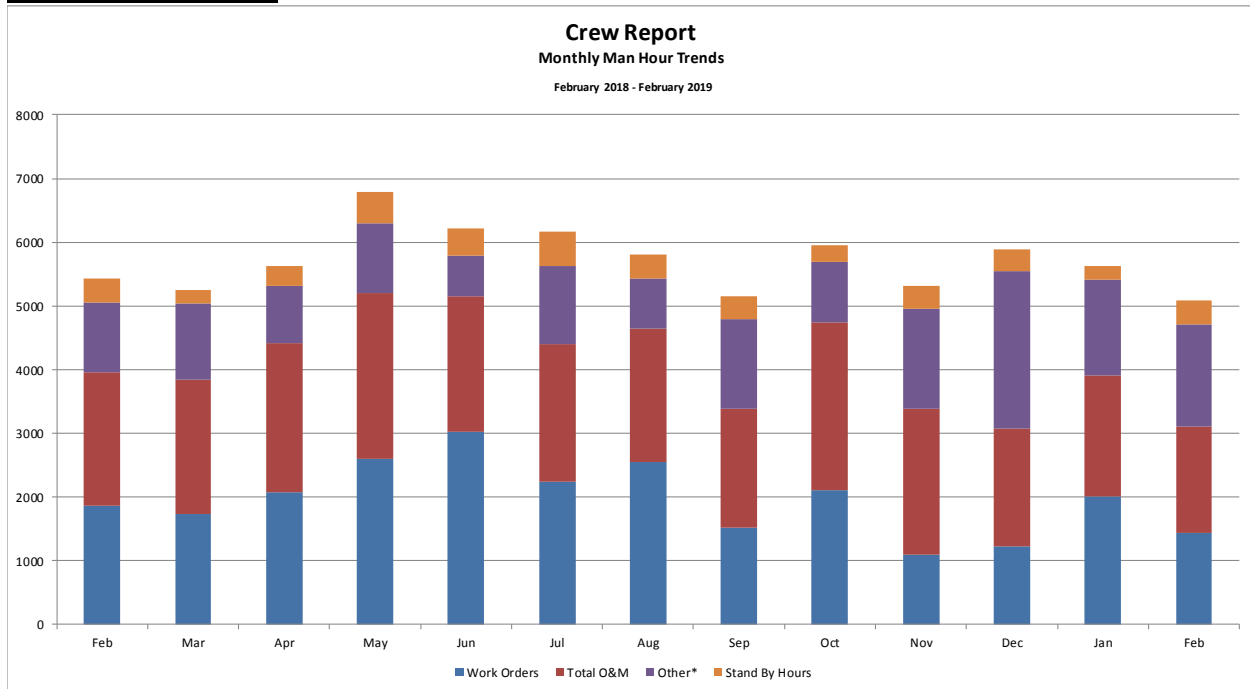
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The Totals for the Rural System were:

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 Total Rural System Energy Throughput..... 49,251,497 kWh

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and 1,607.8 man hours (34.1%) on holidays, vacation, sick, training, safety and inclement weather.

The standby crew was called out 44 times during February, totaling 375.5 hours of actual overtime paid during the month.

**Right-of-Way:**

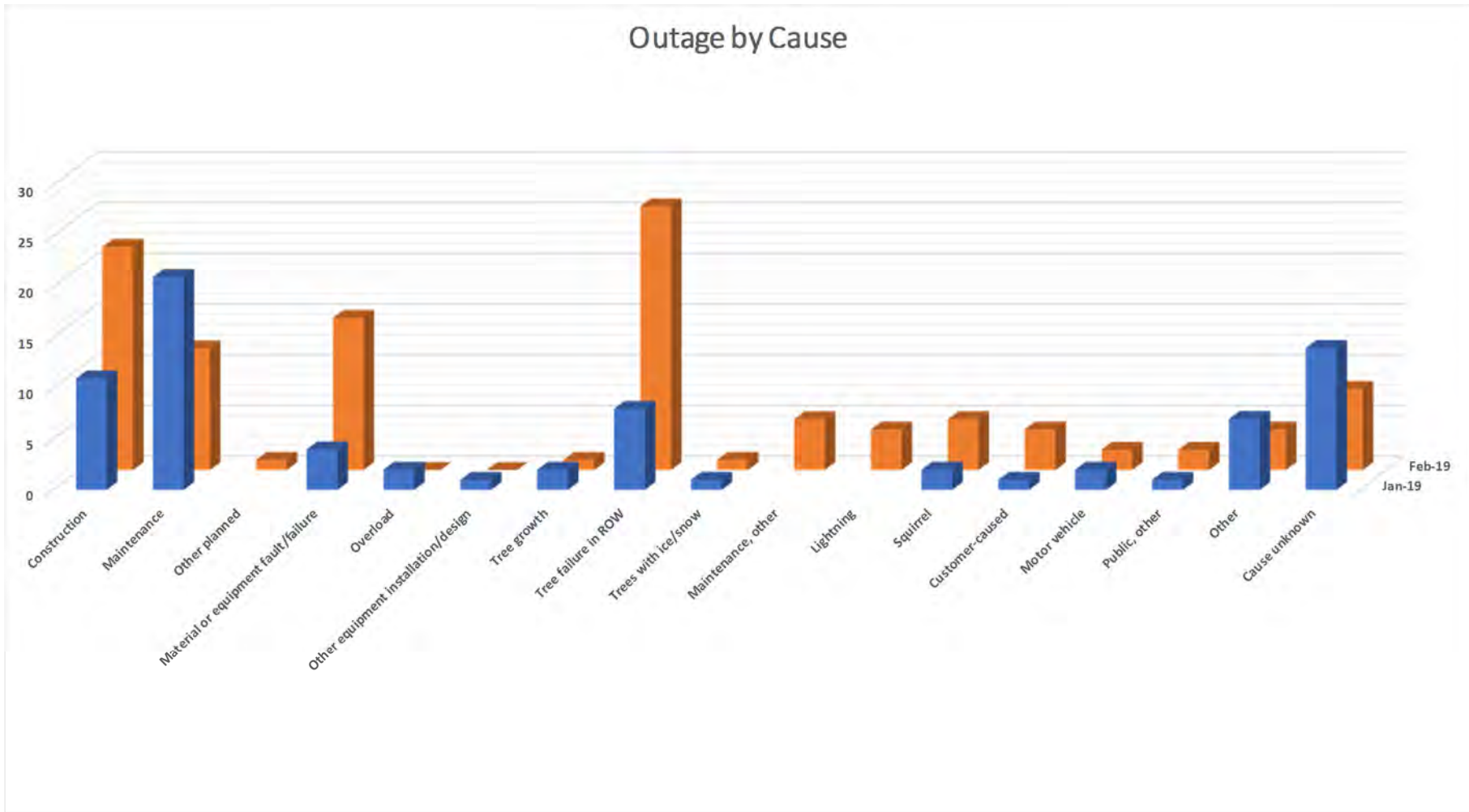
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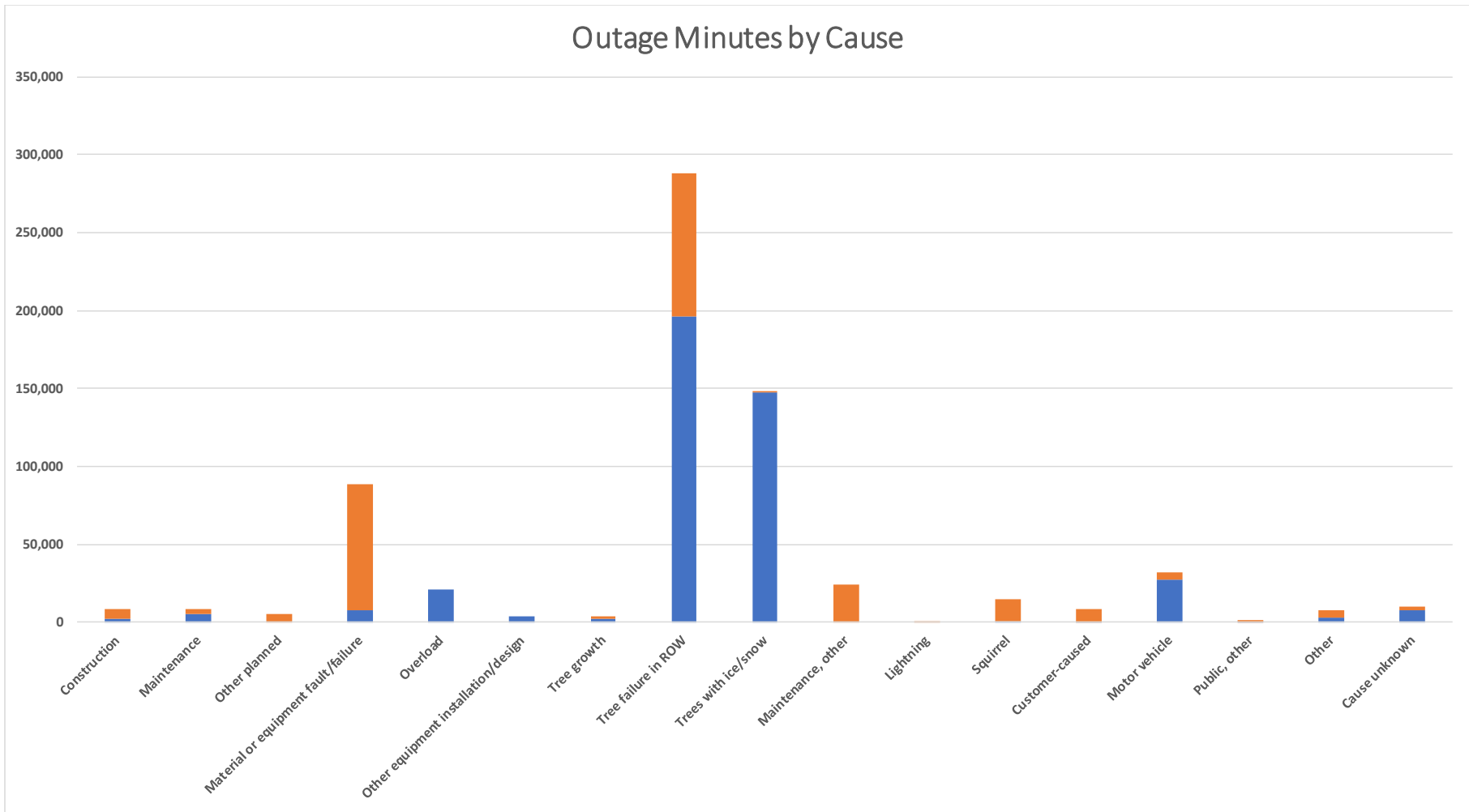
**Outages Indices:**

# of Outages – 112

Customers Affected – 3,304

Customer Hours Total – 4,166





**ENGINEERING & OPERATIONS**  
**Board Report**  
**May 23, 2019**

**CAPITAL PROJECTS**

For the month of January, 2019, 148 work orders were closed at a total cost of \$440,836.75. Of those, 39 were categorized “New Construction” at an average cost of \$3,957.70.

For the month of February, 2019, 118 work orders were closed at a total cost of \$596,230.52. Of those, 32 were categorized “New Construction” at an average cost of \$2,164.85.

**ONGOING PROJECTS**

**Economic Development:**

- New commercial development
  - Menards has given JPEC the go ahead to begin construction URD services.
  - Crews continue to work on New Holt Road
  - Work has begun on converting the Elder-Beerman store in the mall into three tenant spaces
  - Engineering has received three new projects
    - Lifeline Ministries
    - Hwy 60 across from the Golf Complex
    - Eagle Nest Dr.

**OTHER WORK**

- BREC/JPEC will have “Effective Communications” training on May 23<sup>rd</sup>. This training stems from the near miss in March’s tornado
- We have met with Mike Norman (RUS GFR) and have begun working on our 2020-2023 CWP
- All KY Wired pole change outs are complete

**LINE INSPECTION**

- The Line Inspector has finished Palma and Calvert City Substations and will be headed to Grand Rivers and Culp
- Comcast has requested 3 new attachments at 7320 Wurth Road and 1 new attachment at 2265 County Line Road in Melber.

**SYSTEM INFORMATION**

No substation experienced a new peak during the month of March, 2019.

The Totals for the System were:

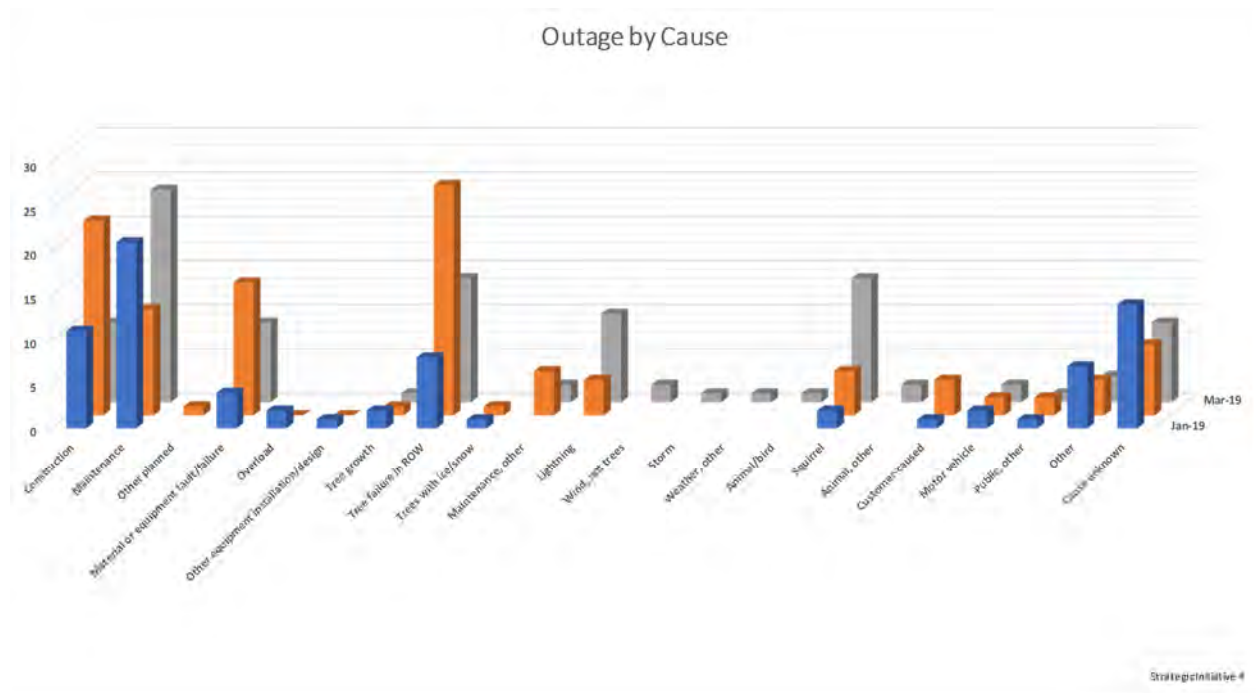
System Coincidental Peak (3/5, 6:30AM) ..... 113,829 kW  
Total System Energy Usage ..... 49,720,746 kWh

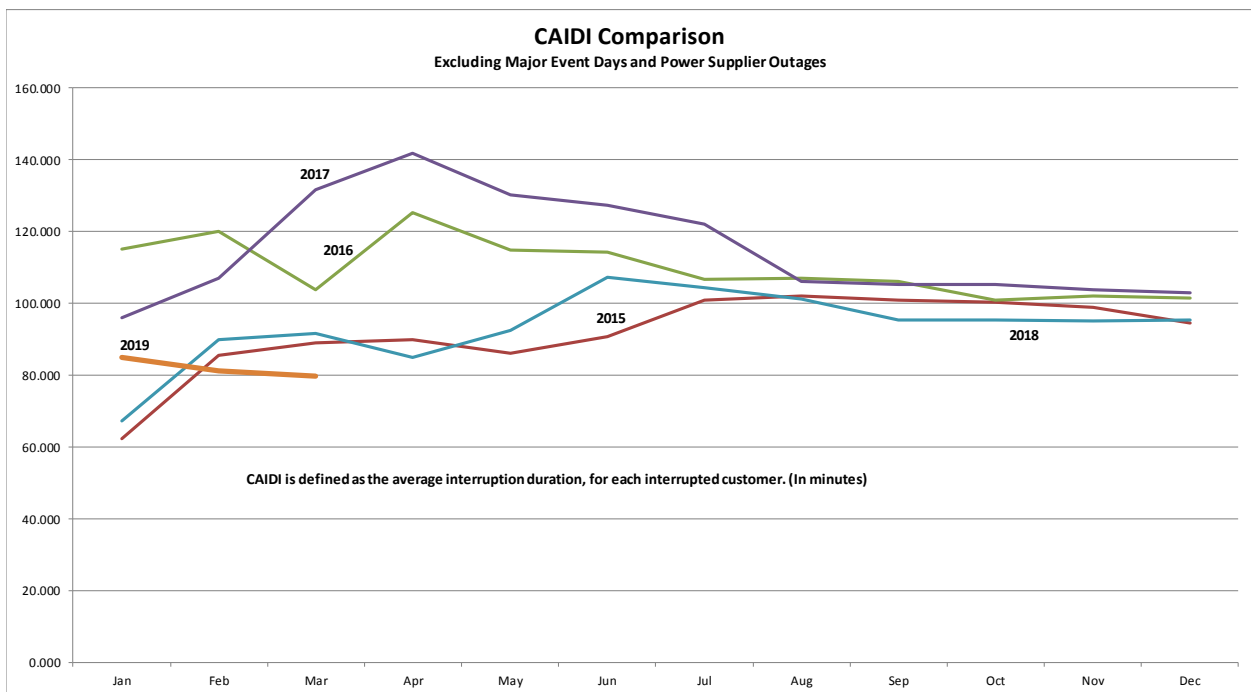
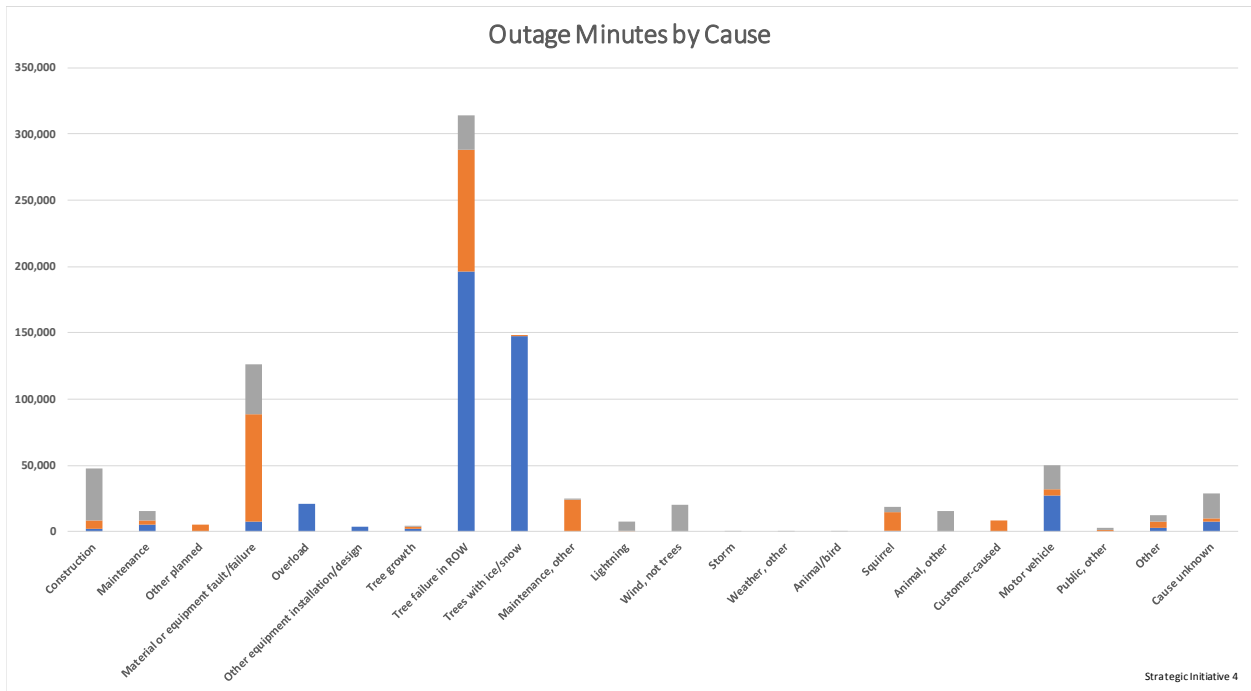
**Right-of-Way:**

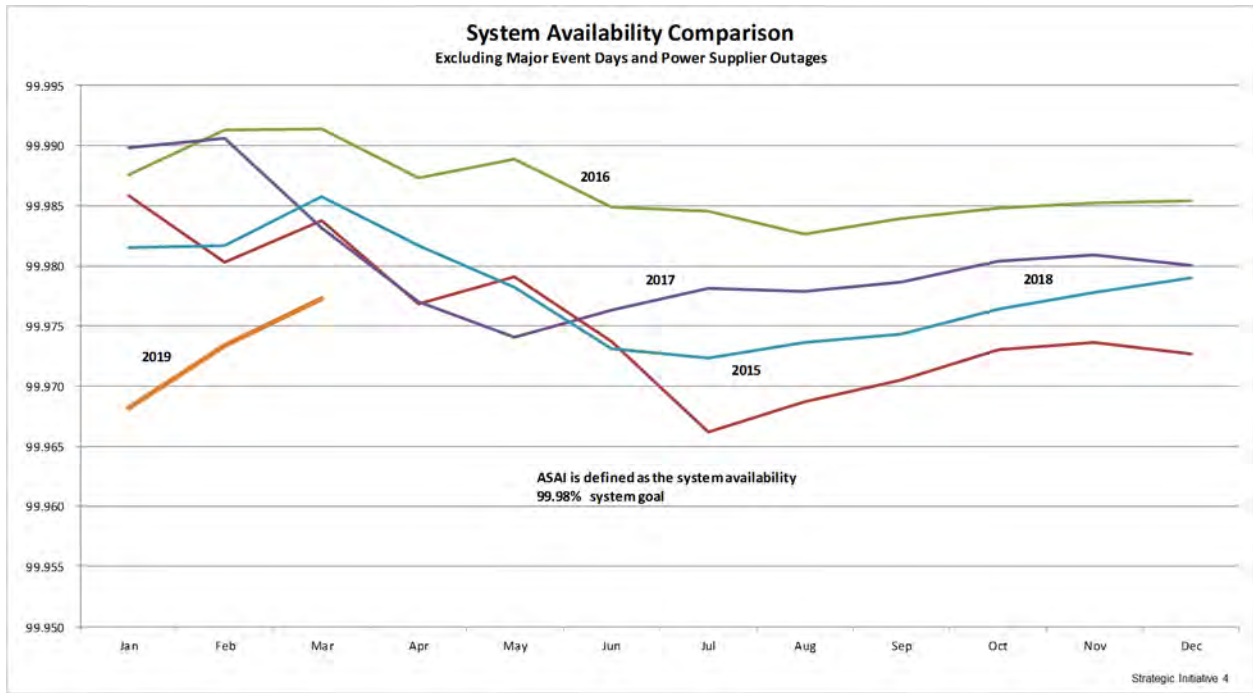
The Tree Trimmers are working on McNeil Road Circuit out of Freemont Substation. Line Patrol Inspectors are working on Clinton Road Circuit out of Krebs Station Road Substation.

**Outages Indices:**

# of Outages – 105  
 Customers Affected – 2,707  
 Customer Hours Total – 3,393.47









# ENGINEERING & OPERATIONS

## ONGOING PROJECTS

### **Economic Development:**

- New commercial development
  - Menards has begun dirt work for their new store
- Residential Development
  - We have received word from developers on Holt Rd. that they plan on starting new housing in the next 2-3 weeks.

## LINE INSPECTION

- The JPEC Line Inspector has finished up the Old 45 Circuit out of Krebs. She is now working on Culp Substation.
- Quality Resources Line Inspector is working on Husbands Road.

## SYSTEM INFORMATION

No substation experienced a new peak during the month of April, 2019.

The Totals for the Rural System were:

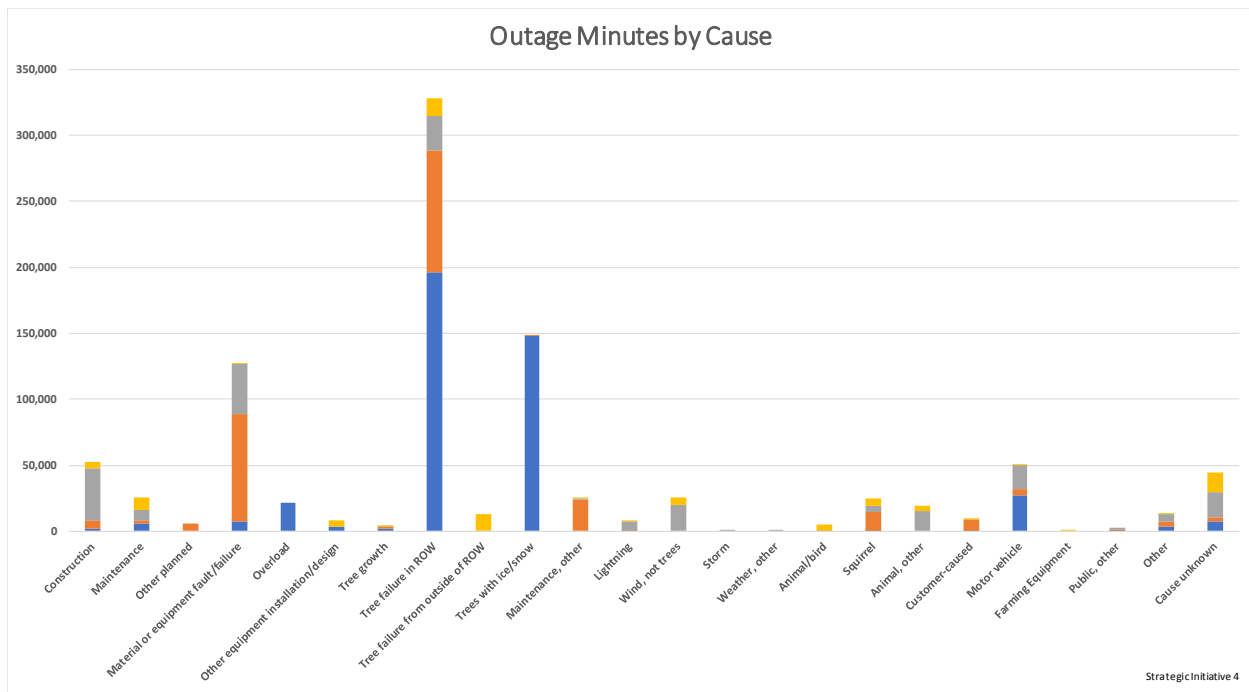
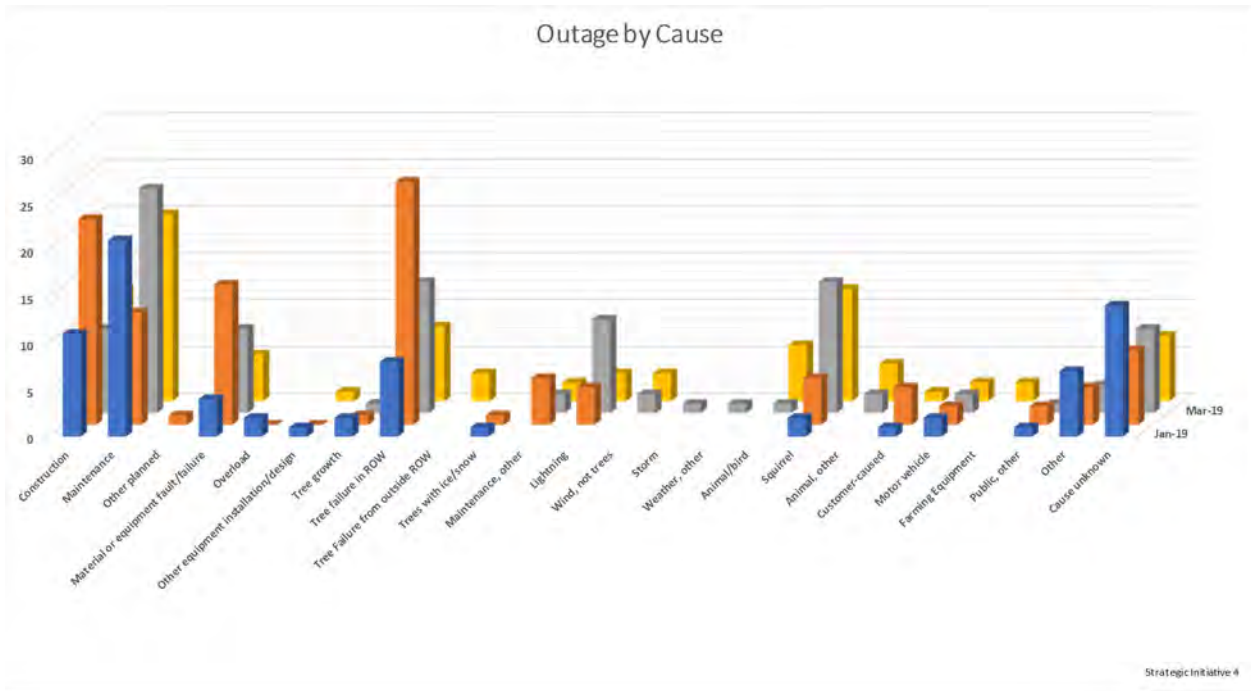
System Coincidental Peak (4/1, 7:30AM) .....	85,959 kW
Total System Energy Usage .....	39,230,990 kWh

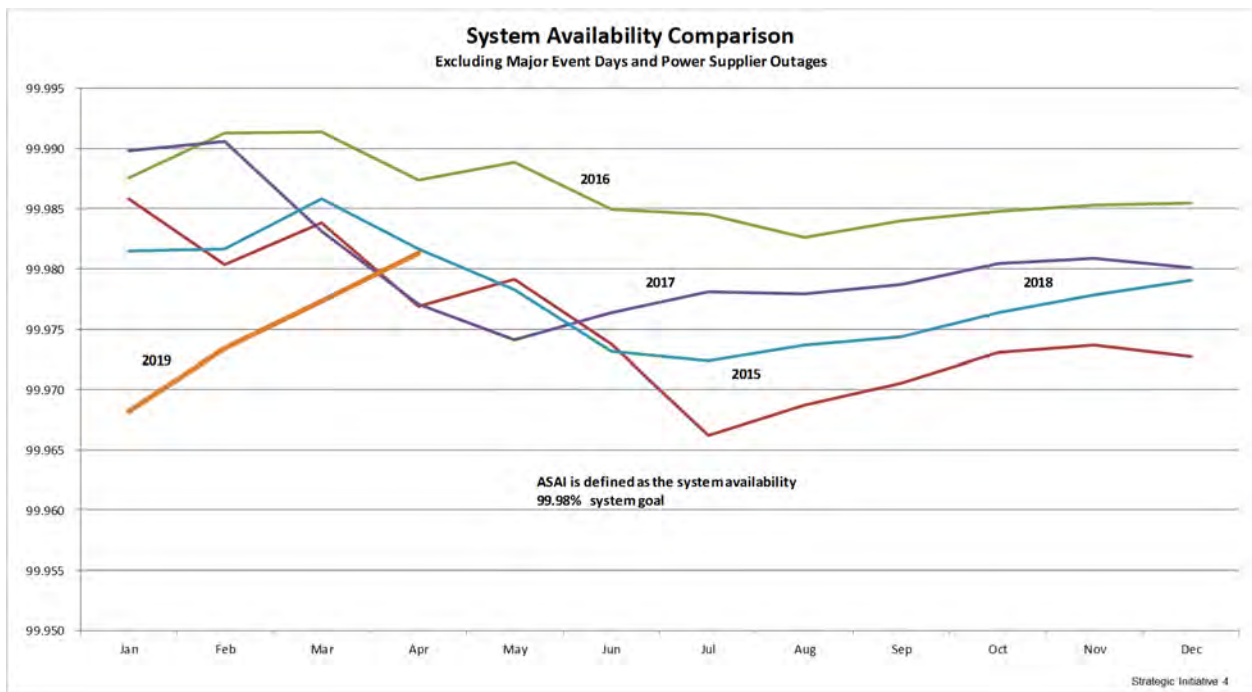
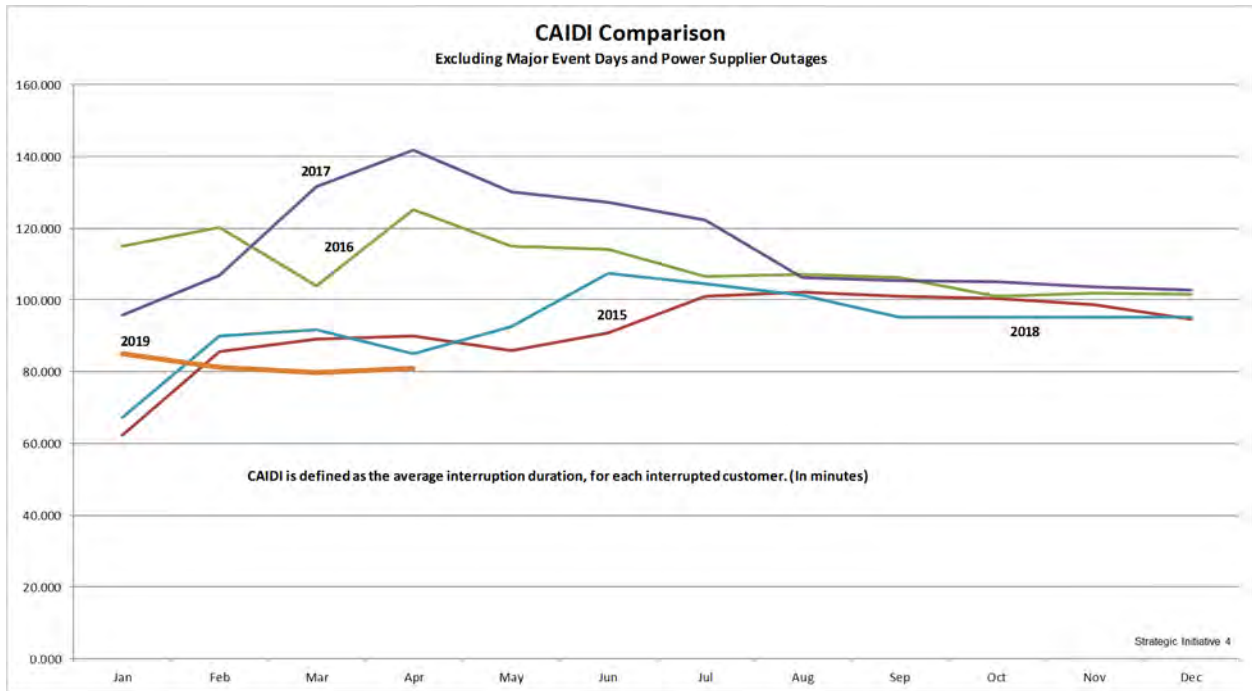
### **Right-of-Way:**

The ROW Crew is working on Fremont and Smithland. The Spray crew is working on Palma.

### **Outages Indices:**

# of Outages – 95  
Customers Affected – 890  
Customer Hours Total – 1,400





## **ENGINEERING & OPERATIONS**

### **ONGOING PROJECTS**

#### **Economic Development:**

- New commercial development
  - Crews have begun installing underground wire for Menards
- Residential Development
  - Engineering has received road layout on new residential subdivision at Krebs Station Rd and Hwy 45. We are designing the URD layout and will be working with developer to begin installation over the next few weeks.

#### **Flood Projects:**

- Water is finally receding back to normal flood stage. Crews will be working on projects along the river in Paducah and Ballard County to help with future flooding.

### **LINE INSPECTION**

- The JPEC Line Inspector is working on Highpoint Sub.
- Quality Resources Line Inspector is working on Burna Sub.

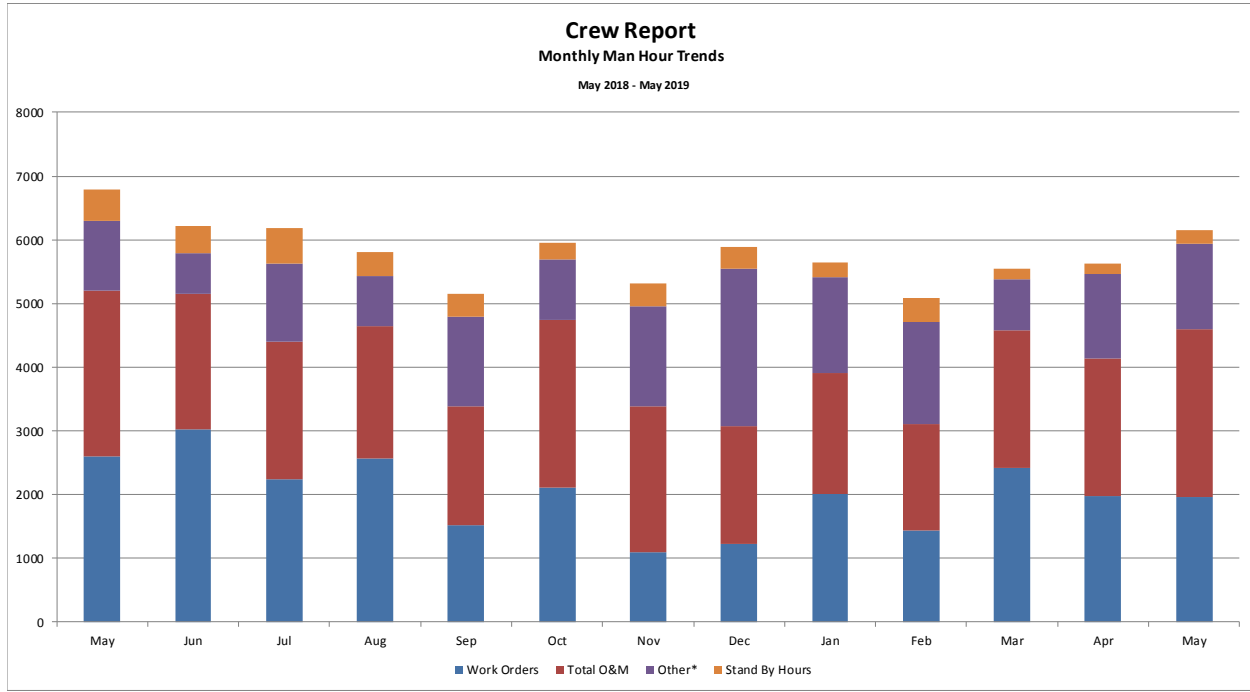
### **SYSTEM INFORMATION**

No substation experienced a new peak during the month of May, 2019.

The Totals for the Rural System were:

System Coincidental Peak (3/31 4:00 pm)..... 115,850 kW  
Total System Energy Usage ..... 47,317,002 kWh

**LINE OPERATIONS**



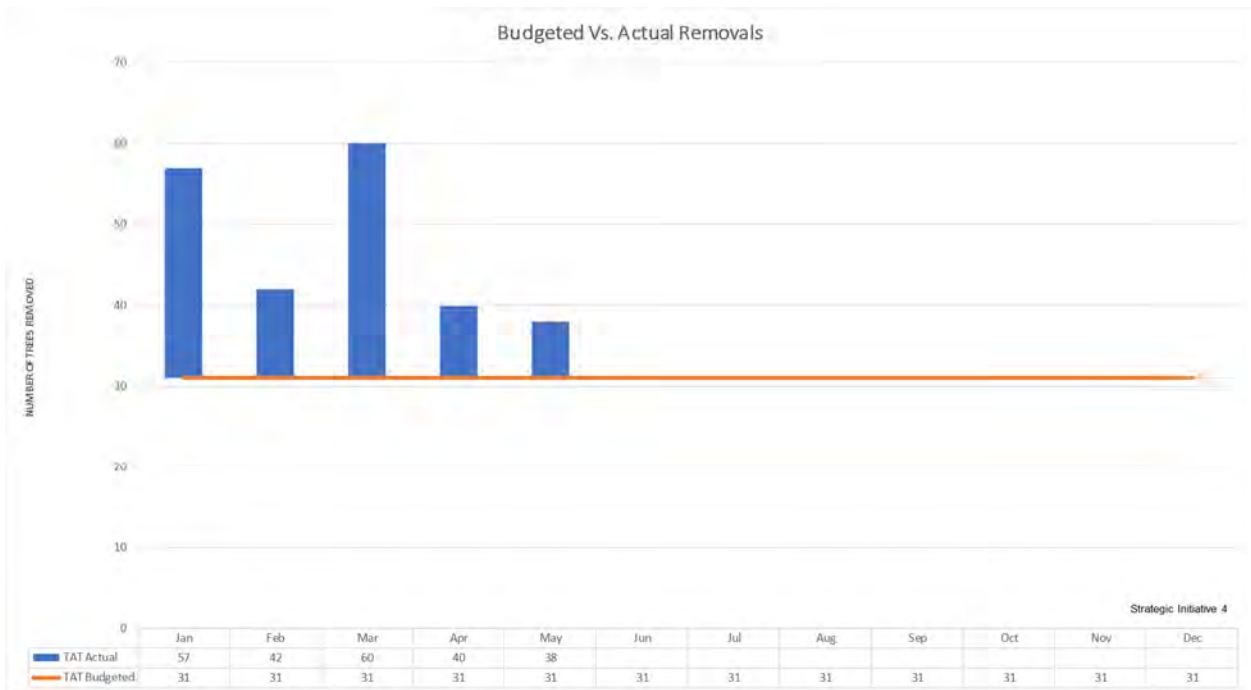
**LINE OPERATIONS**

For the month of May our line crews spent 1,964.00 man hours (33.11%) on work orders, 1,011.00 man hours (17.04%) on operations, 1,622.00 man hours (27.35%) on maintenance items and 1,334.50 man hours (22.50%) on holidays, vacation, sick, training, safety and inclement weather.

The standby crew was called out 58 times during May, totaling 449 hours of actual overtime paid during the month.

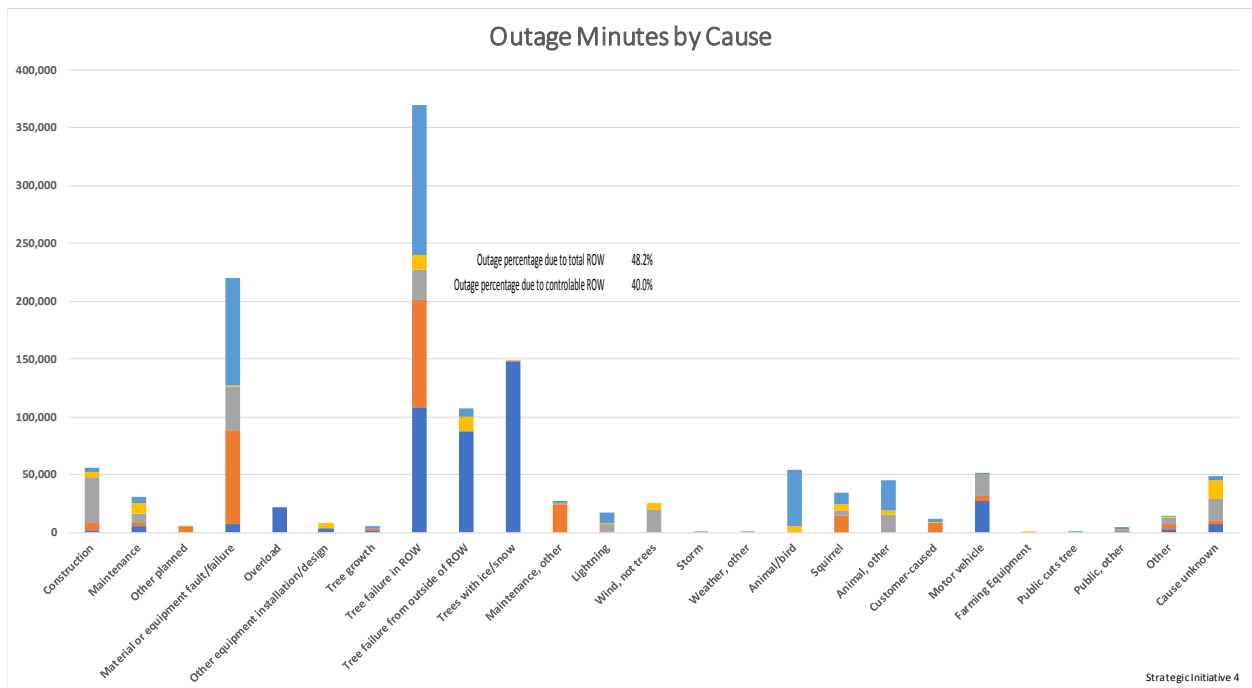
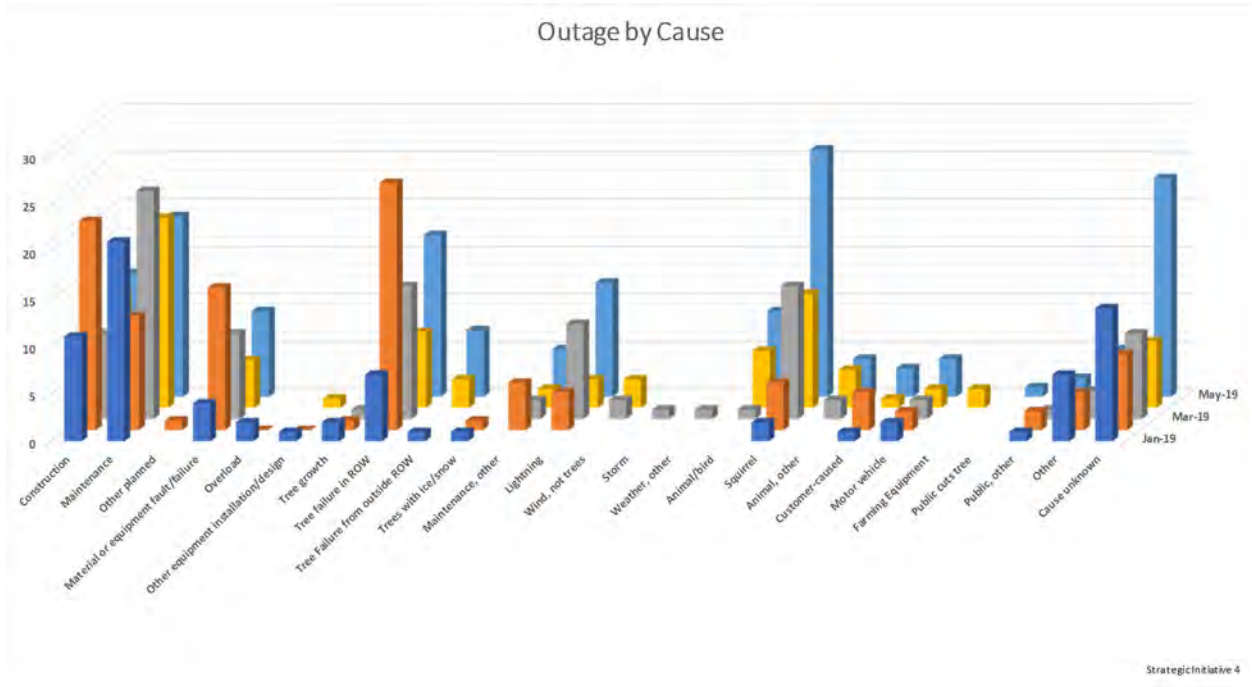
**Right-of-Way:**

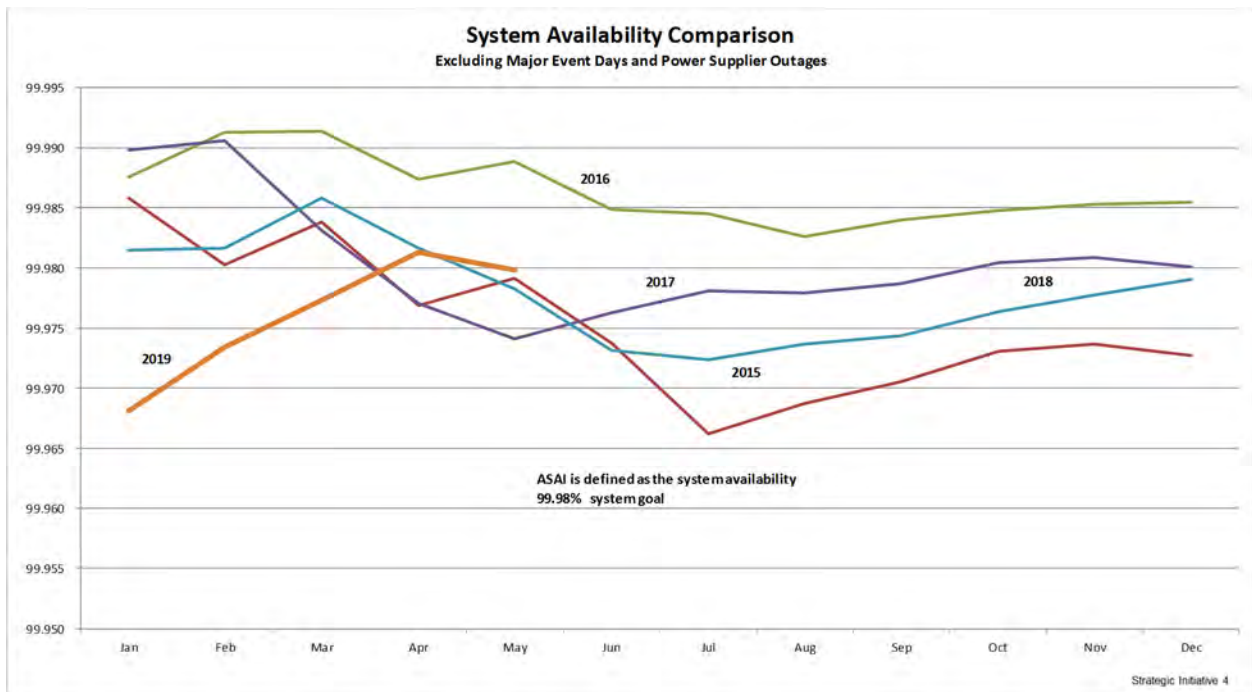
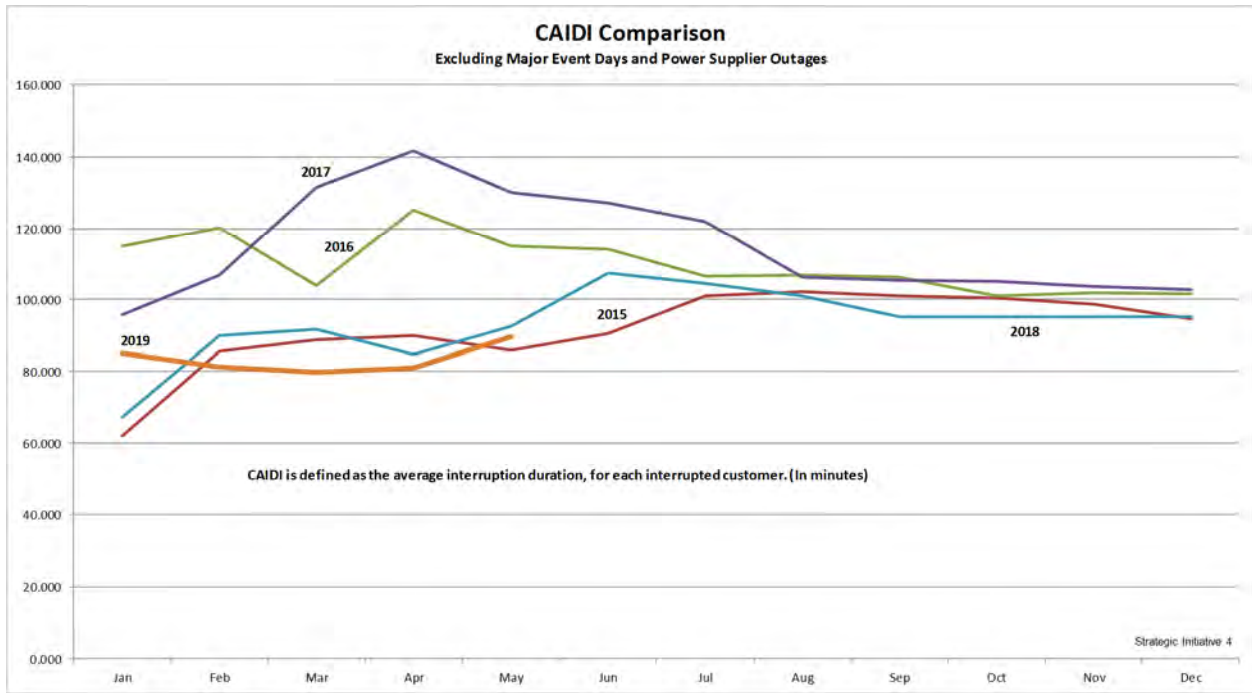
The Townsend crews are working on Smithland Substation.



### Outages Indices:

# of Outages – 163  
 Customers Affected – 2,681  
 Customer Hours Total – 5,786.53







# Engineering & Operations – August 2019

## ONGOING PROJECTS

### **Flood Projects:**

- Gilbertsville Highway, the Tap for the I-24 Bridge -- ROW is being cleared in preparation for staking.
- ADM grain, construct a new line along the levee and remove the line down in the field – ROW has been cleared and construction will start in the next couple of weeks
- Smithland Dam project is complete

### **Substations:**

- Cameras are being installed at Coleman Road and Maxon Substations. This work is the result of the vandalism and thefts at these locations.
- Infrared reports have been received. They have been prioritized and placed in the operations/metering workload.
- We are looking at 3 potential insurance claims:
  - Ledbetter fence-storm damage
  - Coleman Road-vandalism/theft
  - Maxon Road-vandalism/theft

## OTHER WORK

- I have received feedback from KYTC stating we were sent a letter regarding the bridge at Ledbetter. I talked with Michael Shuecraft and understand the state is looking for further justification. I explained I have received no such letter and to please send again or send it by email.
- I was also told KYTC would need a signed, legal agreement from JPEC, that stated the expense of this installation would be paid by JPEC. We are working with the state on a design.

## LINE INSPECTION

- The JPEC Line Inspector has completed Culp and Highpoint Substations.
- Comcast has requested new attachments from where they stop on Highway 1684 (Dogwood Road) to where our line ends at Vastine Green Road. The make-ready is complete. Once the estimate is paid and the poles are changed out, they will be ready to attach.
- Quality Resources Line Inspector is working on Burna Substation.

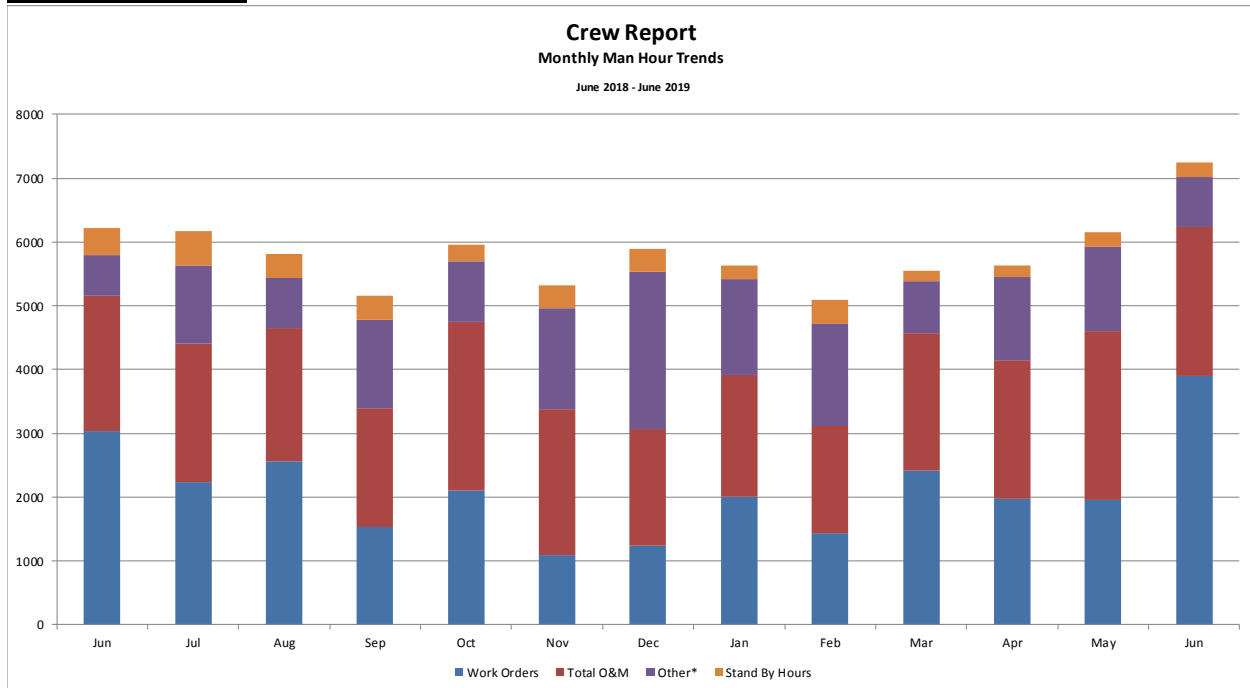
## SYSTEM INFORMATION

No substation experienced a new peak during the month of June, 2019.

The Totals for the Rural System were:

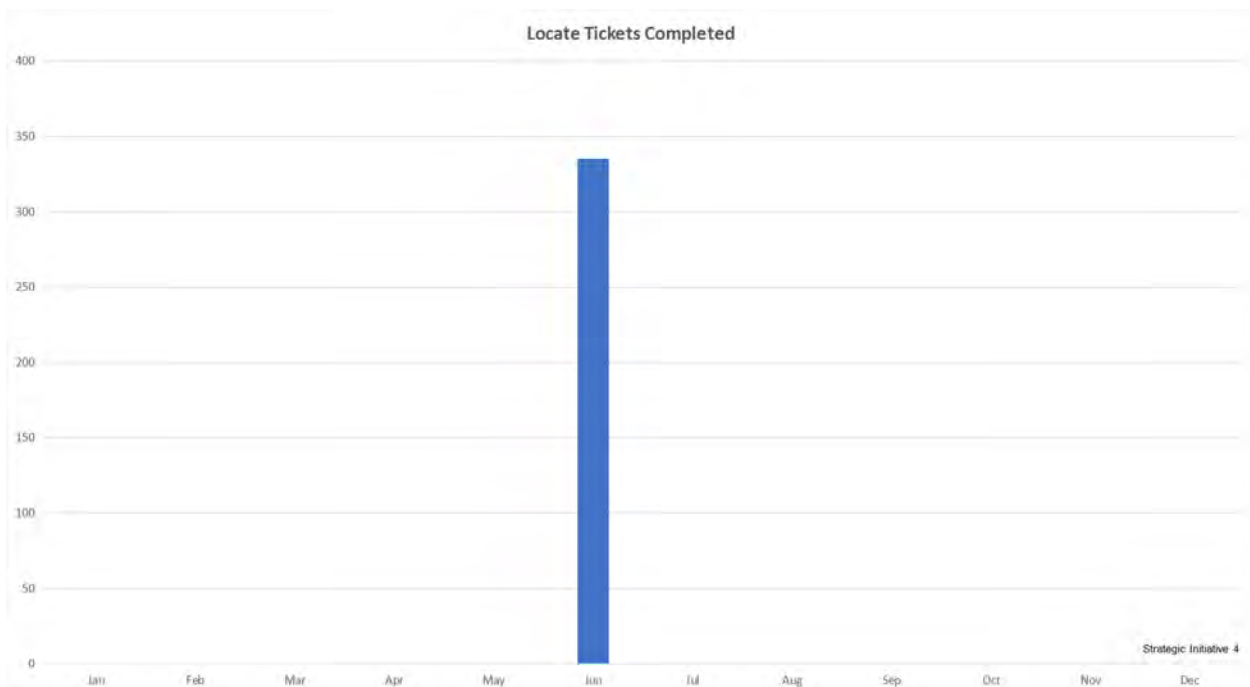
System Coincidental Peak (6/30 5:30 pm)..... 126,192 kW  
Total System Energy Usage ..... 52,162,255 kWh

**LINE OPERATIONS**



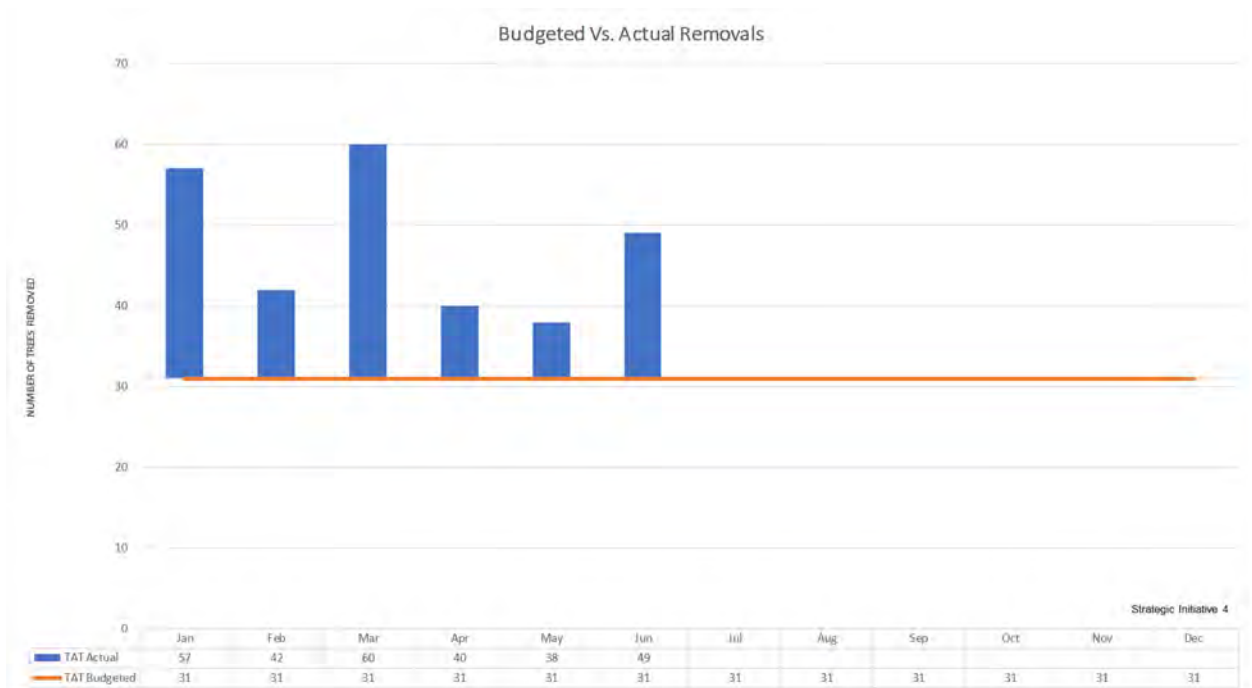
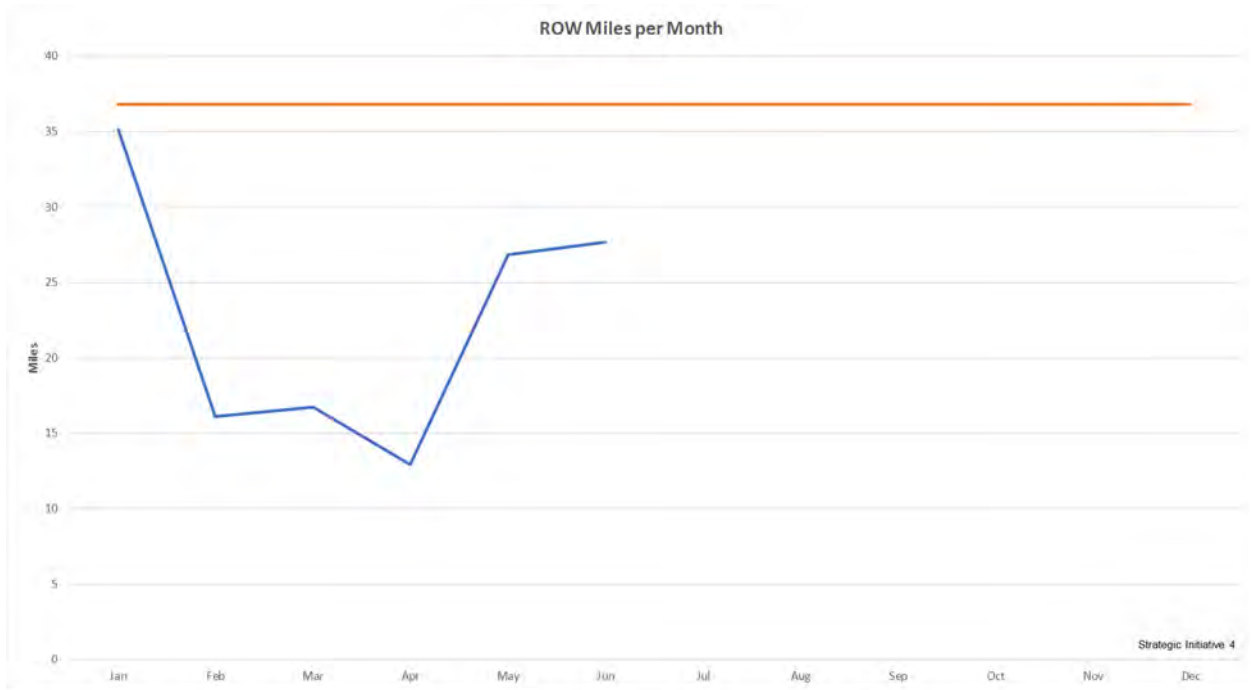
For the month of June our line crews spent 3,898.5 man hours (55.6%) on work orders, 949.0 man hours (13.5%) on operations, 1,384.0 man hours (19.7%) on maintenance items and 780.50 man hours (11.1%) on holidays, vacation, sick, training, safety and inclement weather.

The standby crew was called out 52 times during June, totaling 472 hours of actual overtime paid during the month.



**Right-of-Way:**

The Townsend crews are working on Tiline and Mitchel Store circuits out of Smithland.

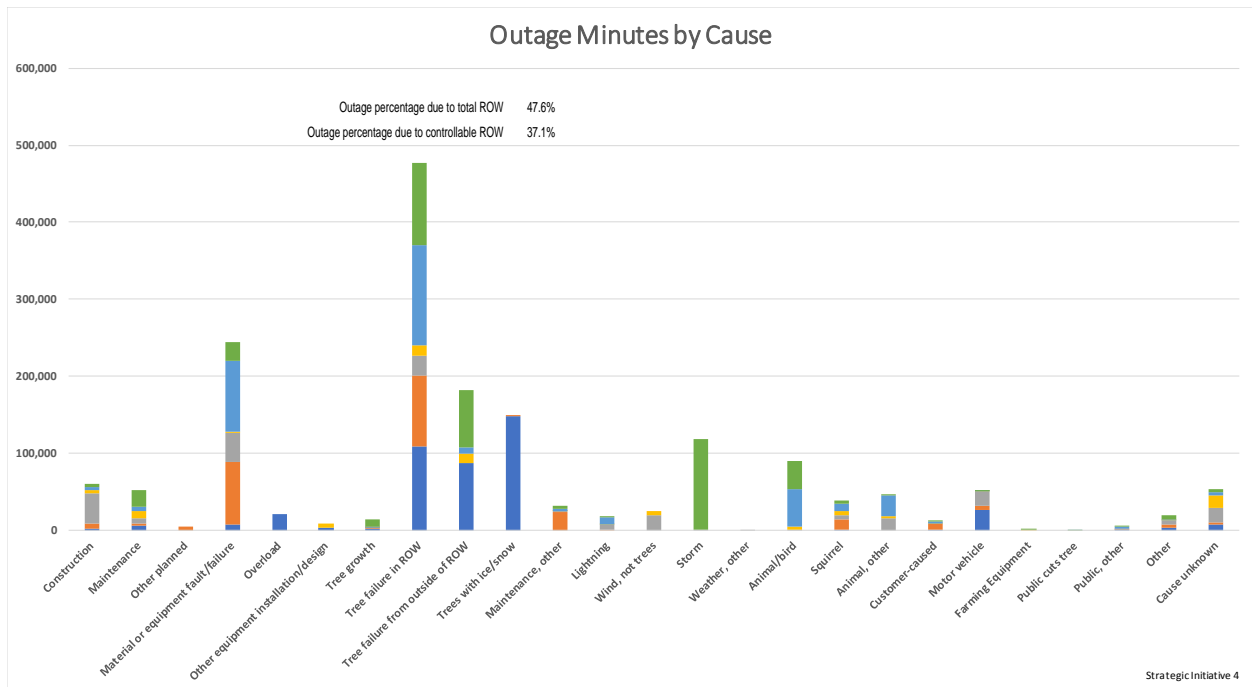
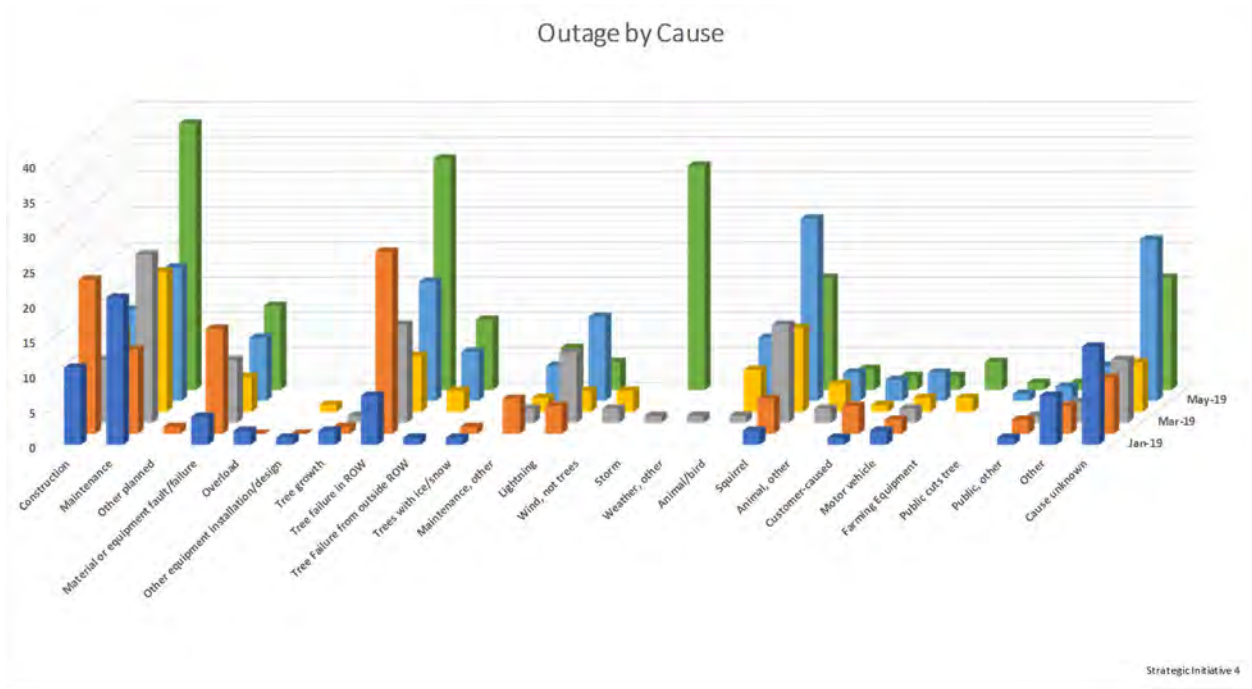


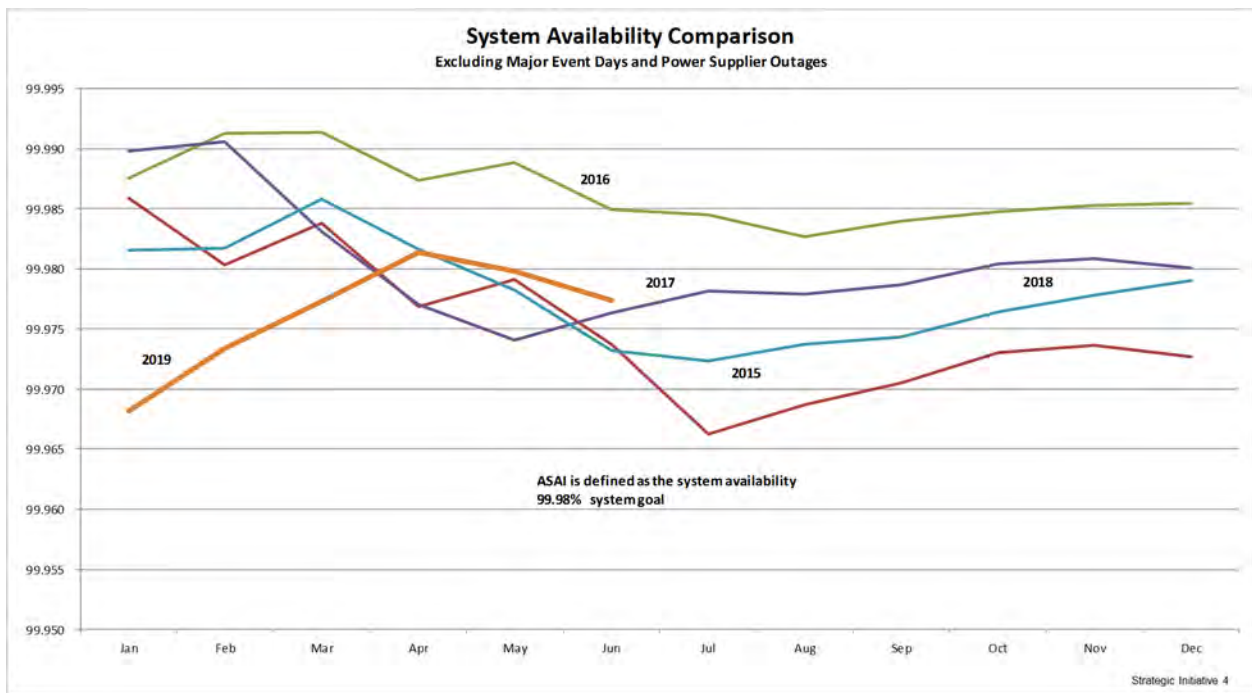
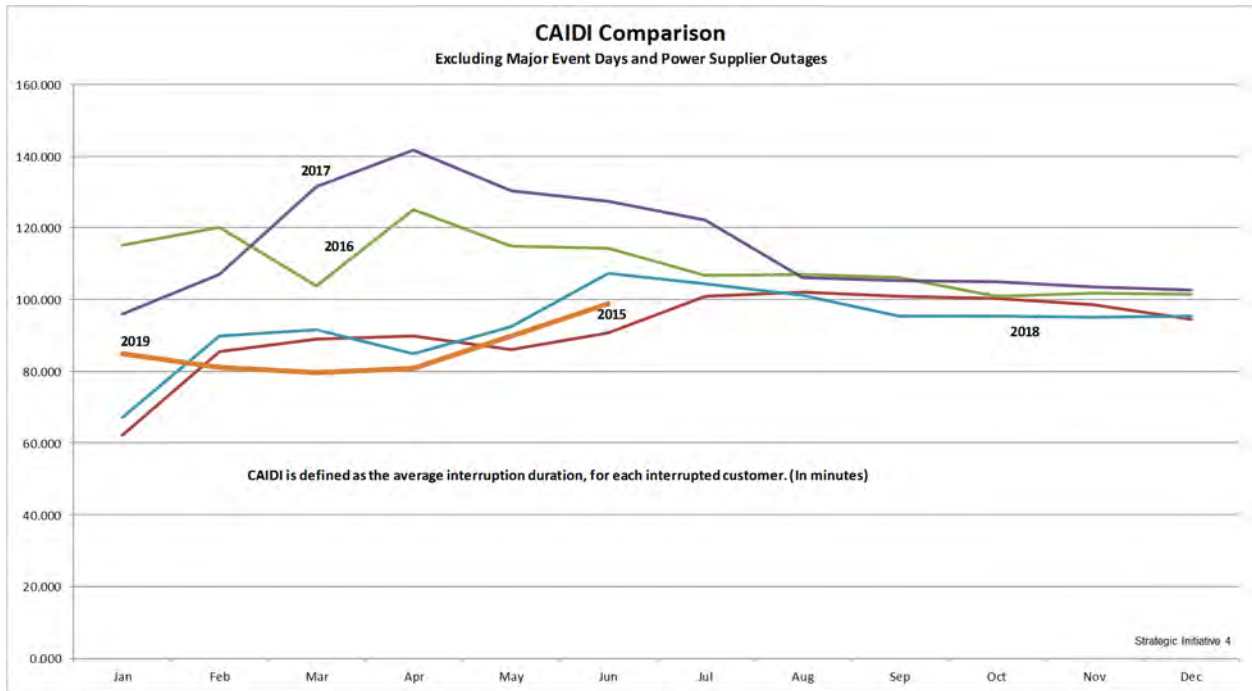
**Outages Indices:**

# of Outages – 210

Customers Affected – 3,171

Customer Hours Total – 7,472.40





# Engineering & Operations

## **ONGOING PROJECTS**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

### **Flood Projects:**

- ADM Grain project is complete
- Gilbertsville Highway, the Tap for the I-24 Bridge – ROW is being cleared in preparation for staking.

## **OTHER WORK**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

- RUS field representative, Mike Norman, was in the office to finalize the 2020-2023 CWP. He verbally approved the plan after review. We are working with Jeff to upload the plan to the RUS website portal
- Joy substation outage on 9/16 was due to birds in substation. Birds caused enough damage to recloser that it had to be replaced.
- Still waiting on a letter from KYTC on the Ledbetter bridge. District 1 office informed me on 9/17 that an official letter is coming soon.
- We have discussed inserting conduit for communications across the Smithland bridge. We have agreed on the location of conduit and are awaiting on what is needed out of JPEC to proceed.

## **LINE INSPECTION**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

- The JPEC Line Inspector has finished Coleman Road Substation and is working on Possum Trot.
- KY WIRED has requested a few more pole change-outs on their routes and they also requested a few more attachments on their Ledbetter route.
- Quality Resources Line Inspector is working on Burna Substation.

## **SYSTEM INFORMATION**

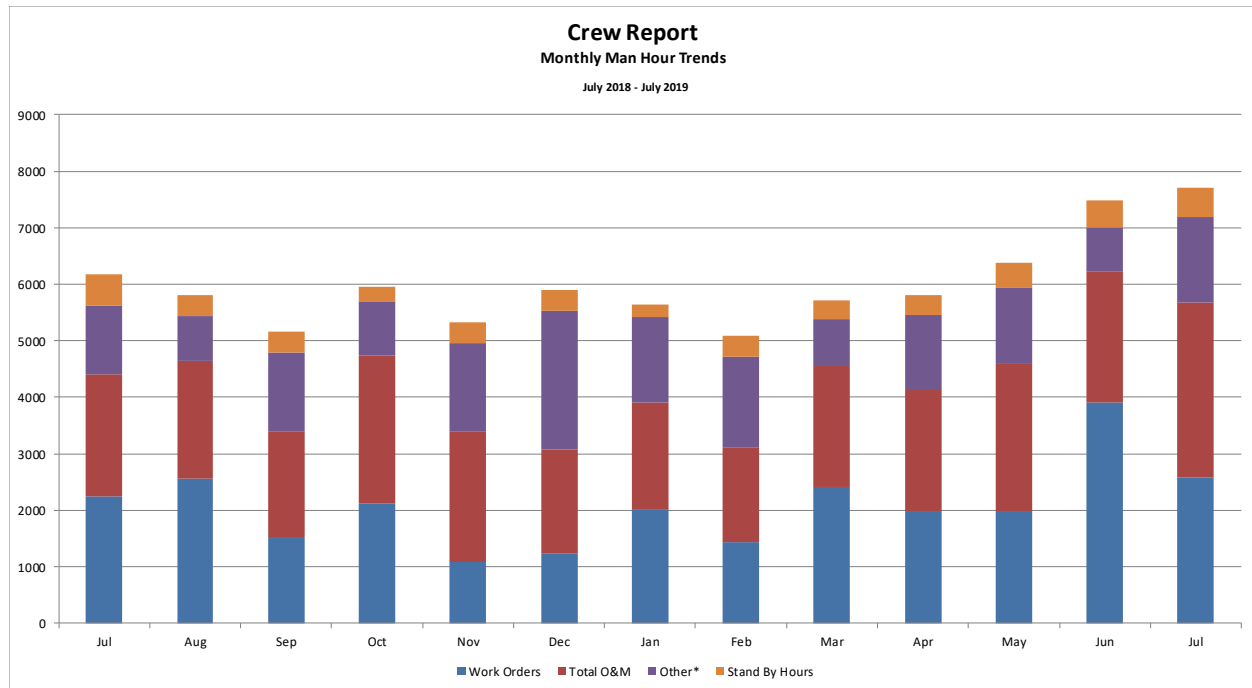
*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

No substation experienced a new peak during the month of July, 2019.  
The Totals for the Rural System were:

System Coincidental Peak (7/19 5:00 pm).....	134,565 kW
Total System Energy Usage .....	63,295,477 kWh

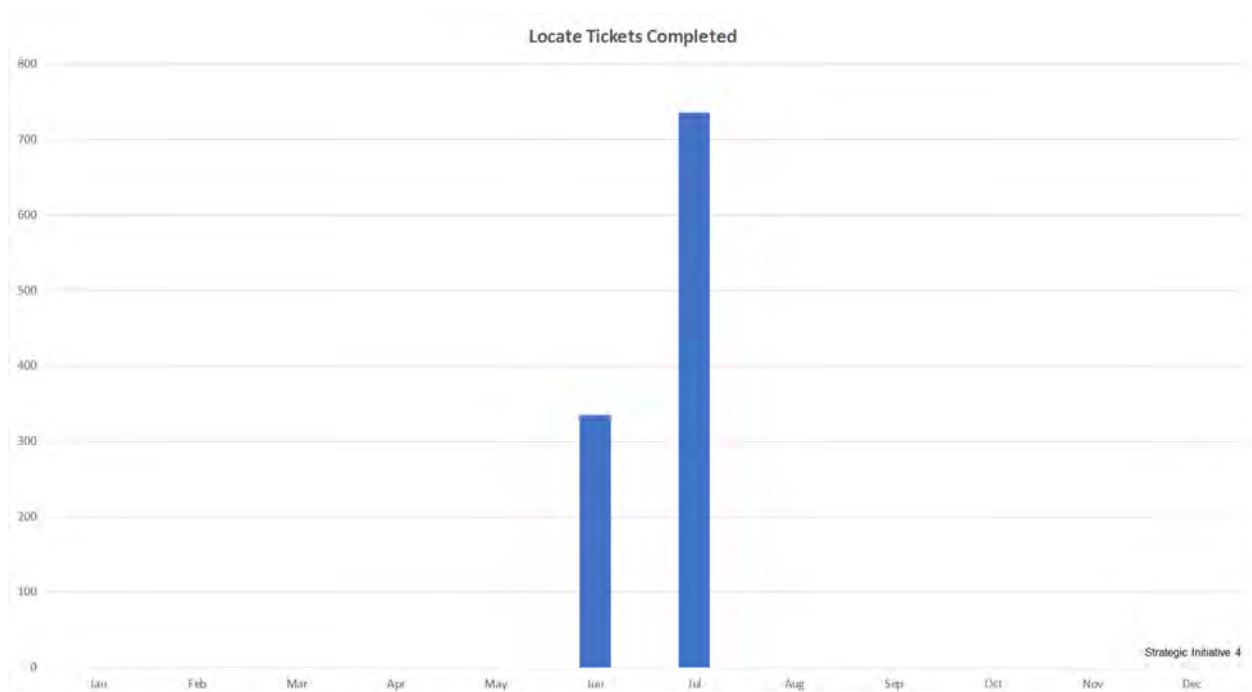
## LINE OPERATIONS

### Strategic Initiative 4 – System Operations & Member Support Efficiencies



For the month of July our line crews spent 2,584.00 man hours (35.92%) on work orders, 1,139.50 man hours (15.84%) on operations, 1,946.50 man hours (27.06%) on maintenance items and 1,523.59 man hours (21.18%) on holidays, vacation, sick, training, safety and inclement weather.

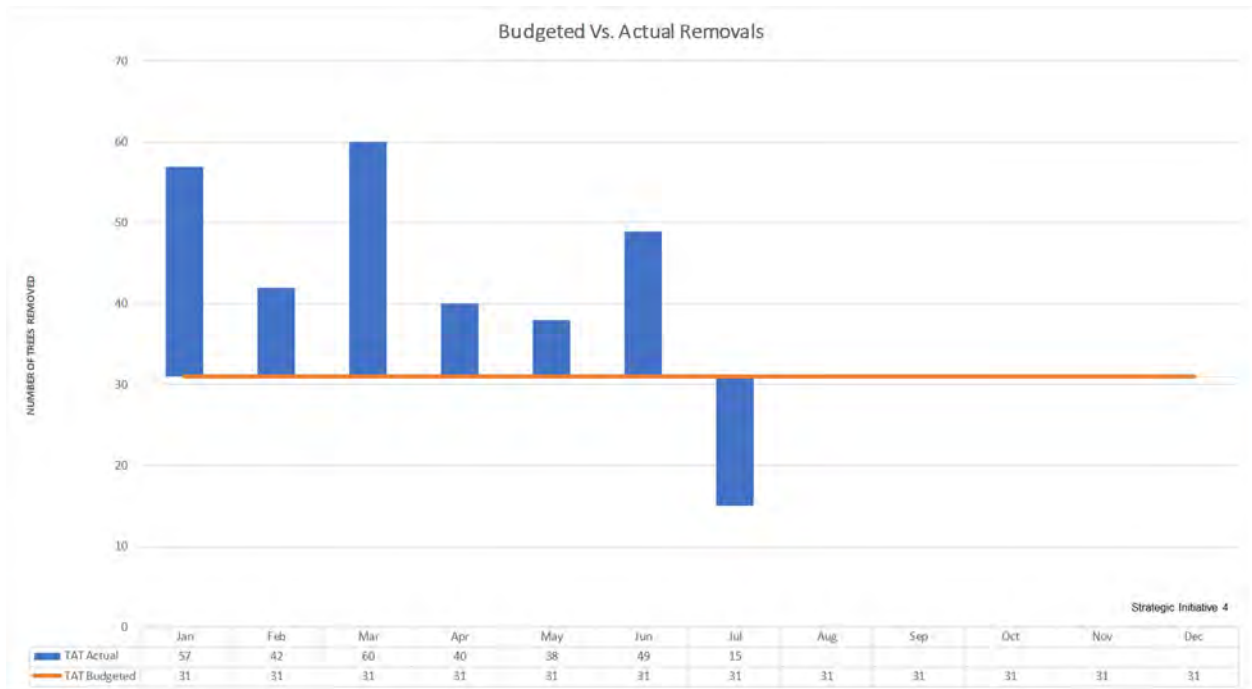
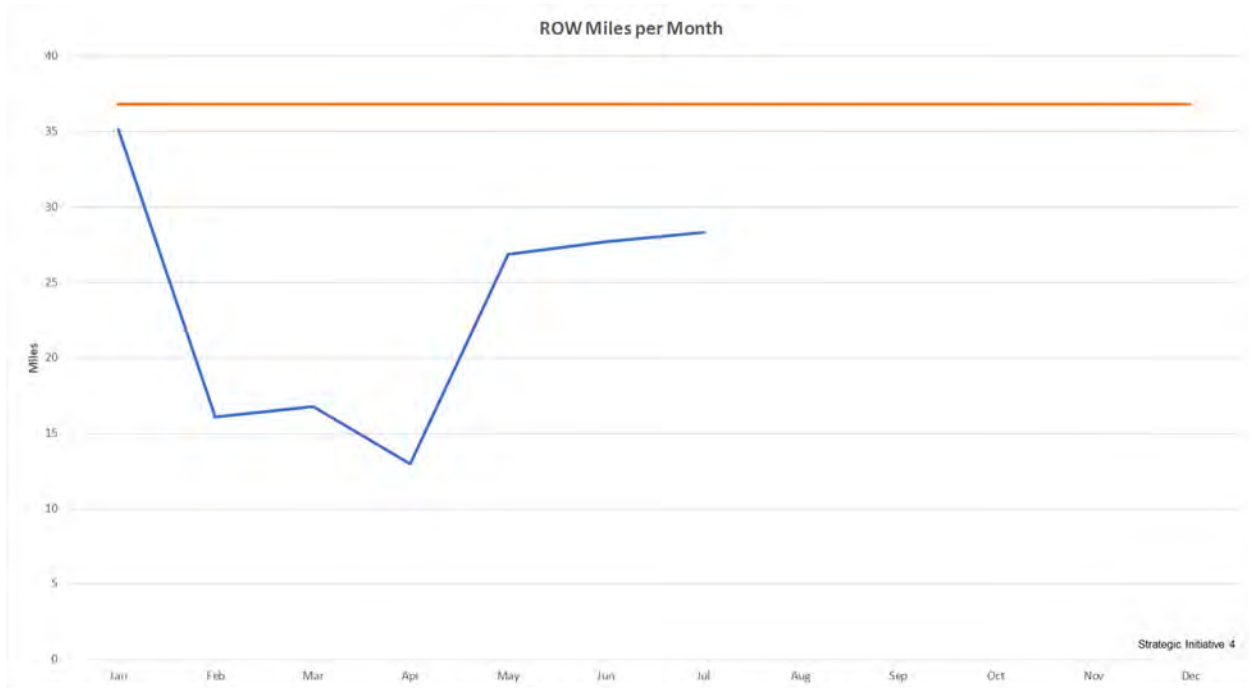
The standby crew was called out 64 times during July, totaling 505.5 hours of actual overtime paid during the month.



**Right-of-Way:**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

The Townsend crews are working on Tiline and Mitchel Store circuits out of Smithland.





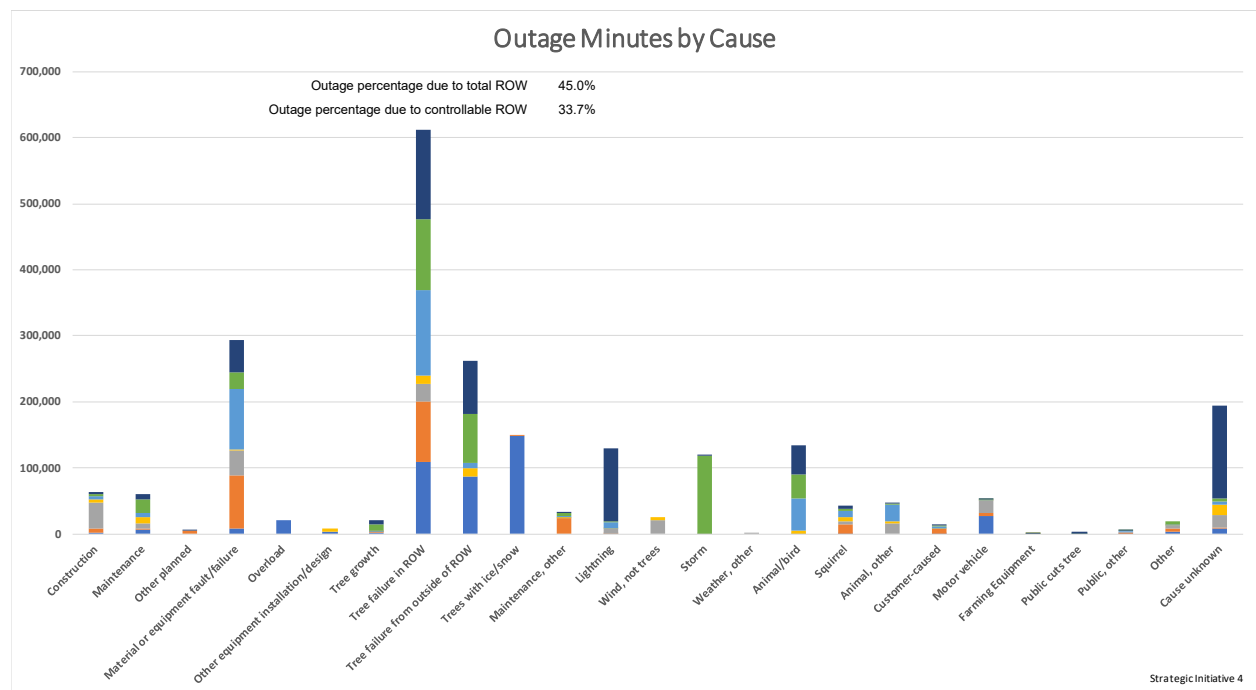
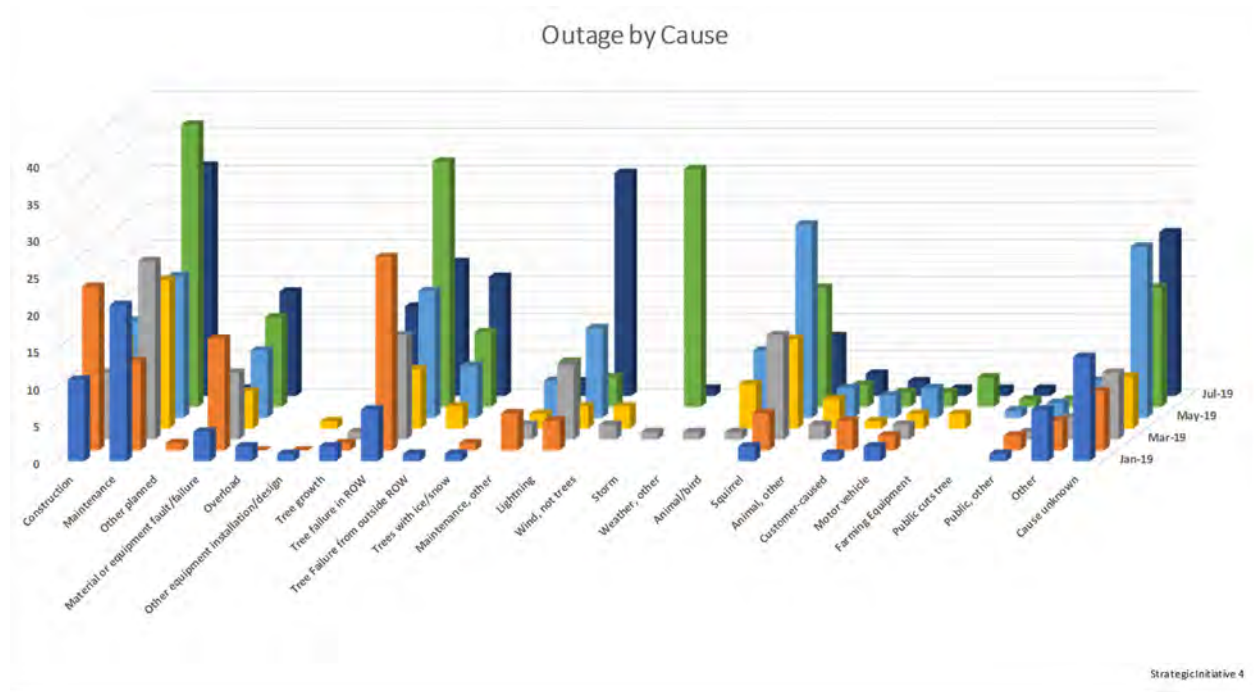
### Outages Indices:

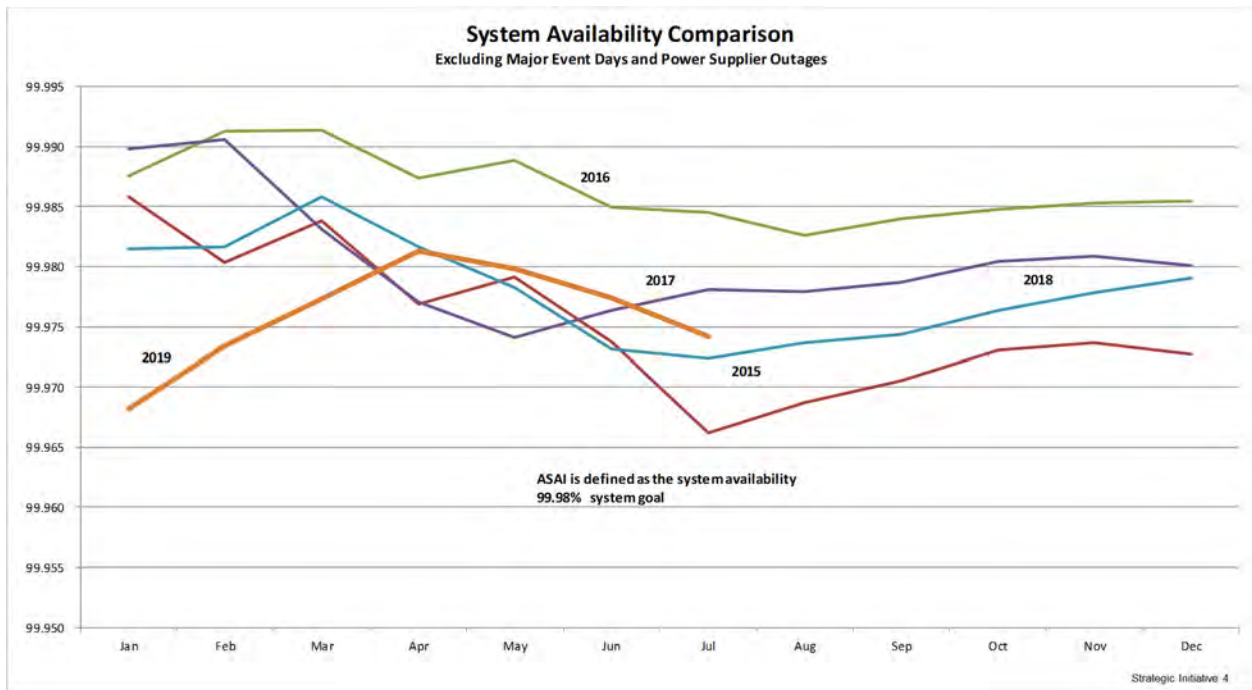
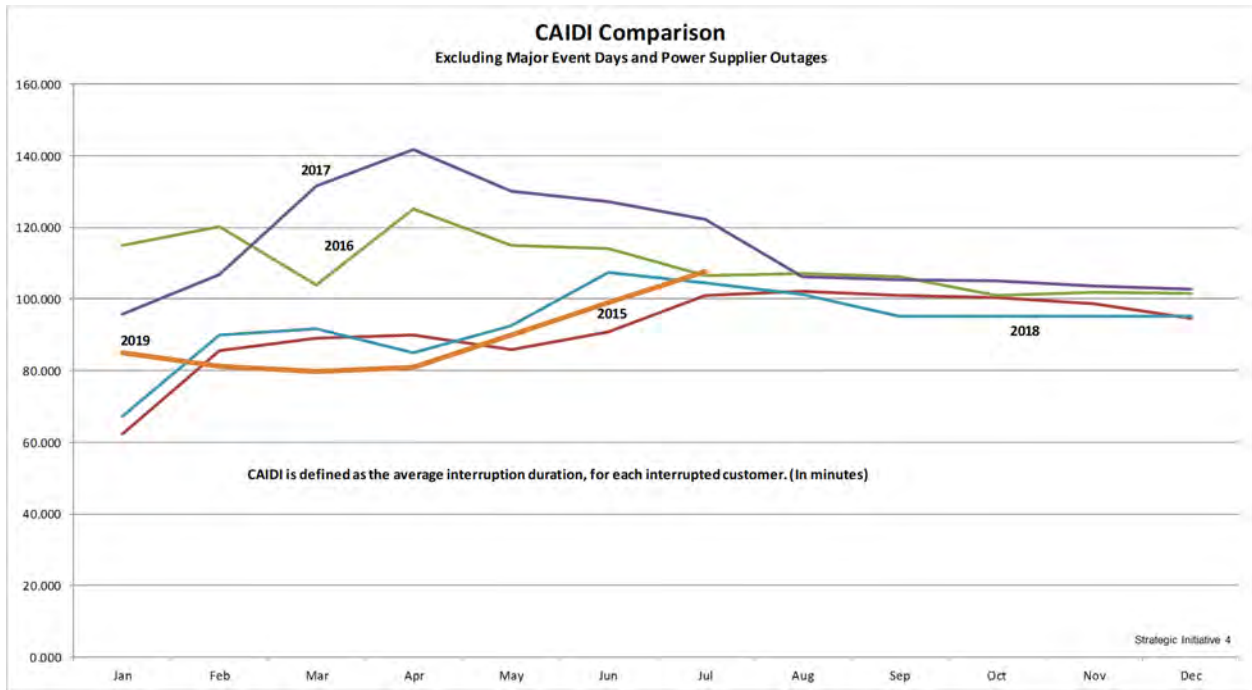
Strategic Initiative 4 – System Operations & Member Support Efficiencies

# of Outages – 182

Customers Affected – 4,067

Customer Hours Total – 9,844.18





# Engineering & Operations

October 2019

## **ONGOING PROJECTS**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

### **Substations:**

- We have received pricing on failed transformer in Freemont. Engineering is evaluating options.

## **OTHER WORK**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

- PSC will be conducting a construction and safety inspection on JPEC system during the week of Oct 28th. Steve Kingsolver will be riding certain circuits looking at vegetation management and compliance with NESC.

## **LINE INSPECTION**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

- Line Inspections are complete for the Little Union/Hwy 60 East Mall feeder as well as the Freemont/Bonds Road feeder. Line inspections are currently underway on the Possum Trot Substation and should be finished shortly.
- KY Wired has requested a few more adjustments on their routes in Livingston and Graves Counties. Their contractor has started construction of their fiber line in the Graves County area.

## **SYSTEM INFORMATION**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

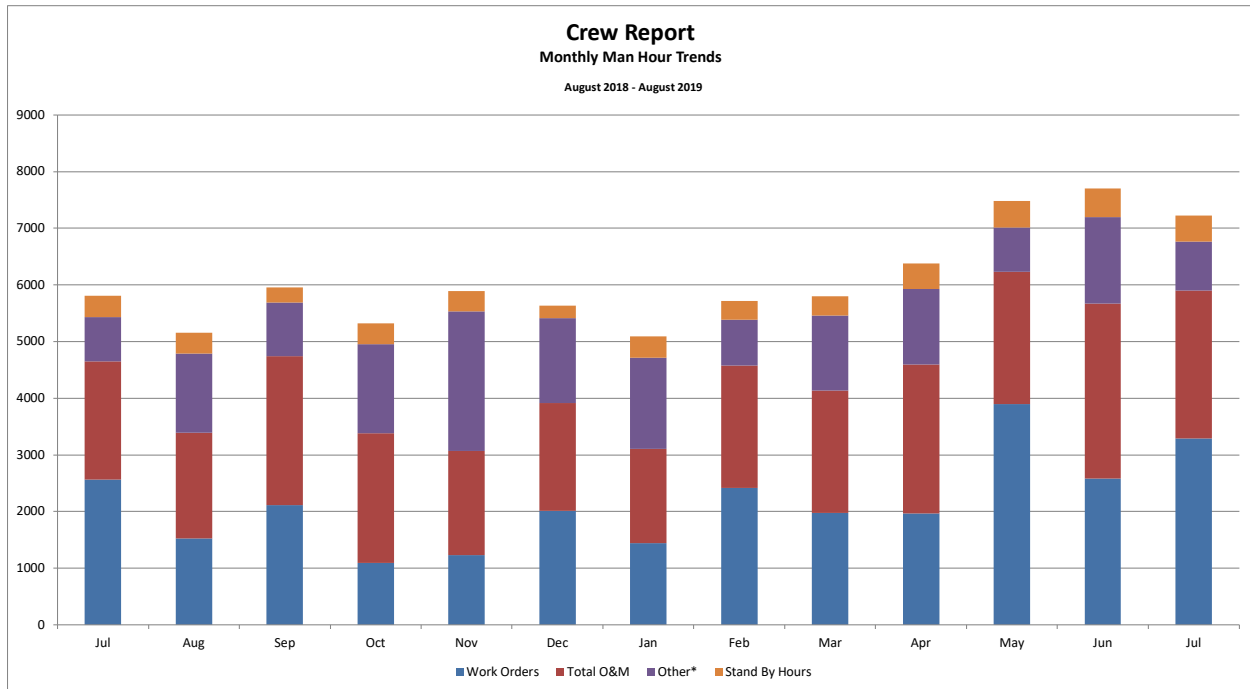
No substation experienced a new peak during the month of August 2019.

The Totals for the Rural System were:

System Coincidental Peak (8/19 5:00 pm).....	138,117 kW
Total System Energy Usage .....	61,474,613 kWh

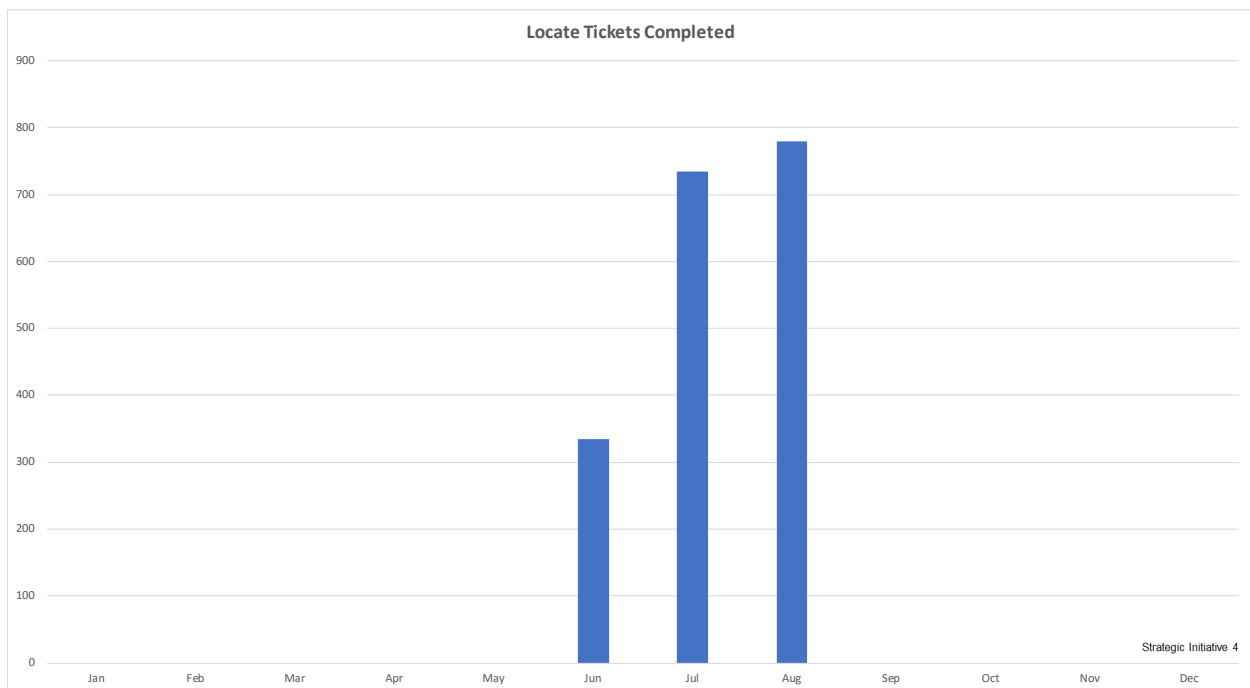
**LINE OPERATIONS**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*



For the month of August our line crews spent 3,291.0 man hours (48.7%) on work orders, 1,087.5 man hours (16.1%) on operations, 1,518.0 man hours (22.4%) on maintenance items and 864.0 man hours (12.8%) on holidays, vacation, sick, training, safety and inclement weather.

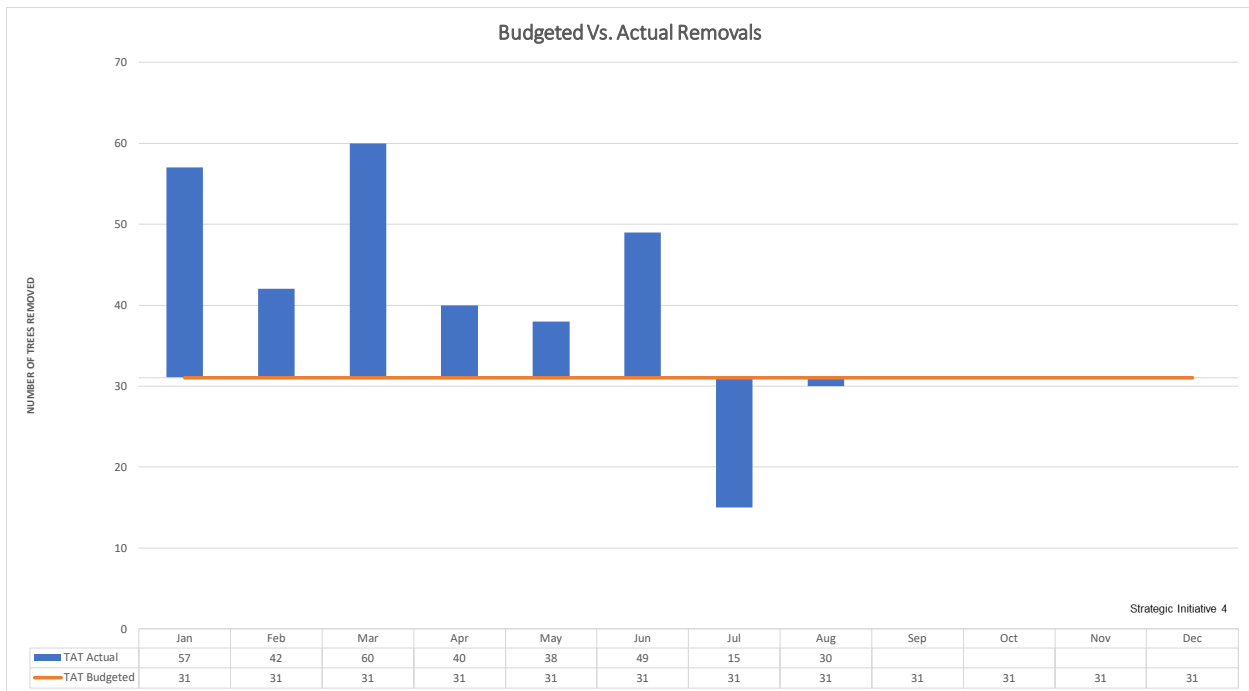
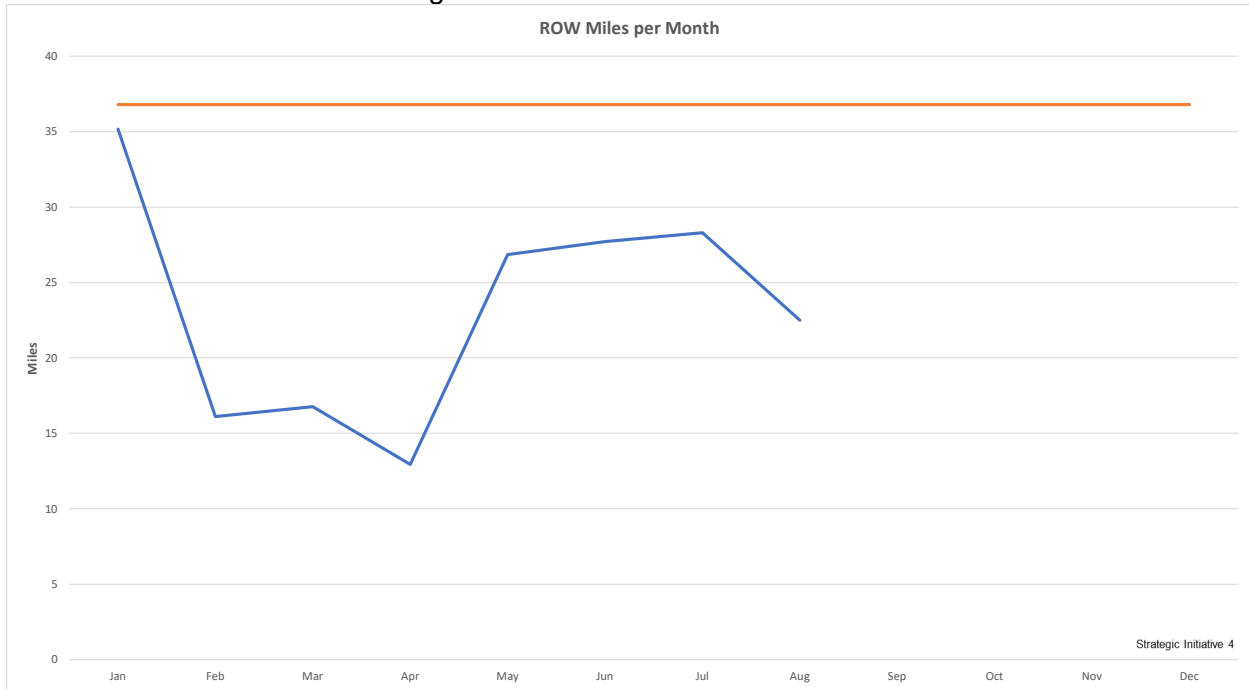
The standby crew was called out 57 times during August, totaling 468 hours of actual overtime paid during the month.



**Right-of-Way:**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

The Townsend crews are working on Tiline and Mitchel Store circuits out of Smithland Sub.



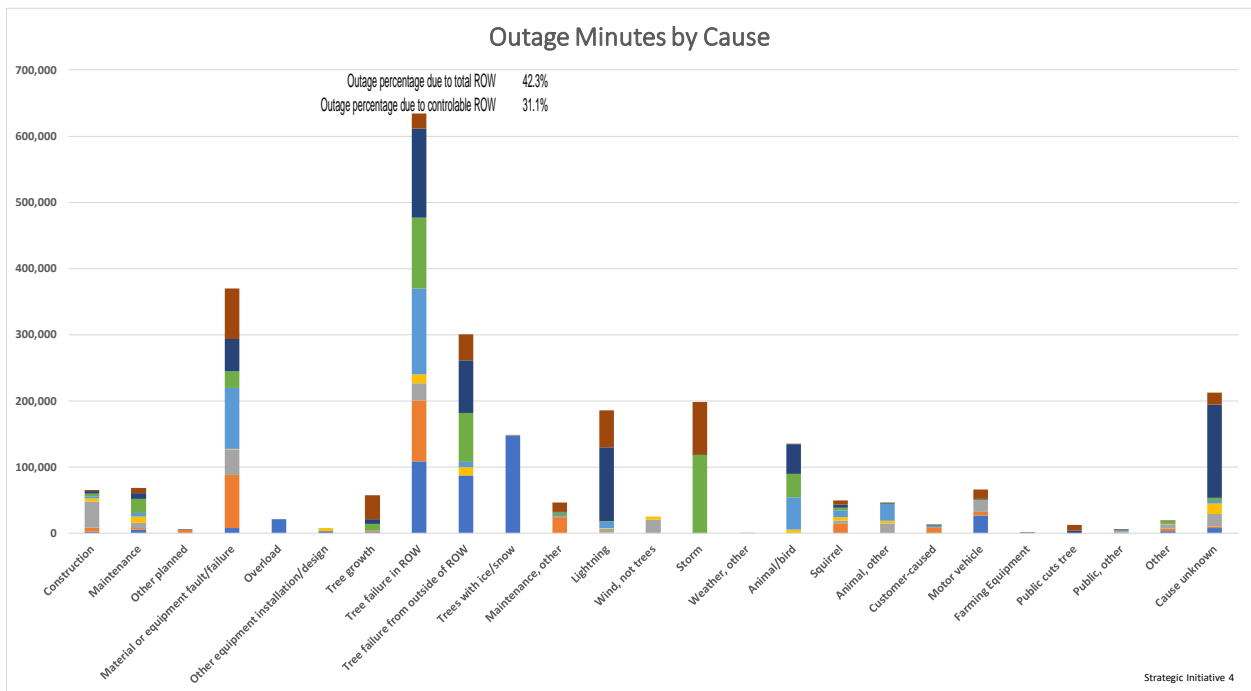
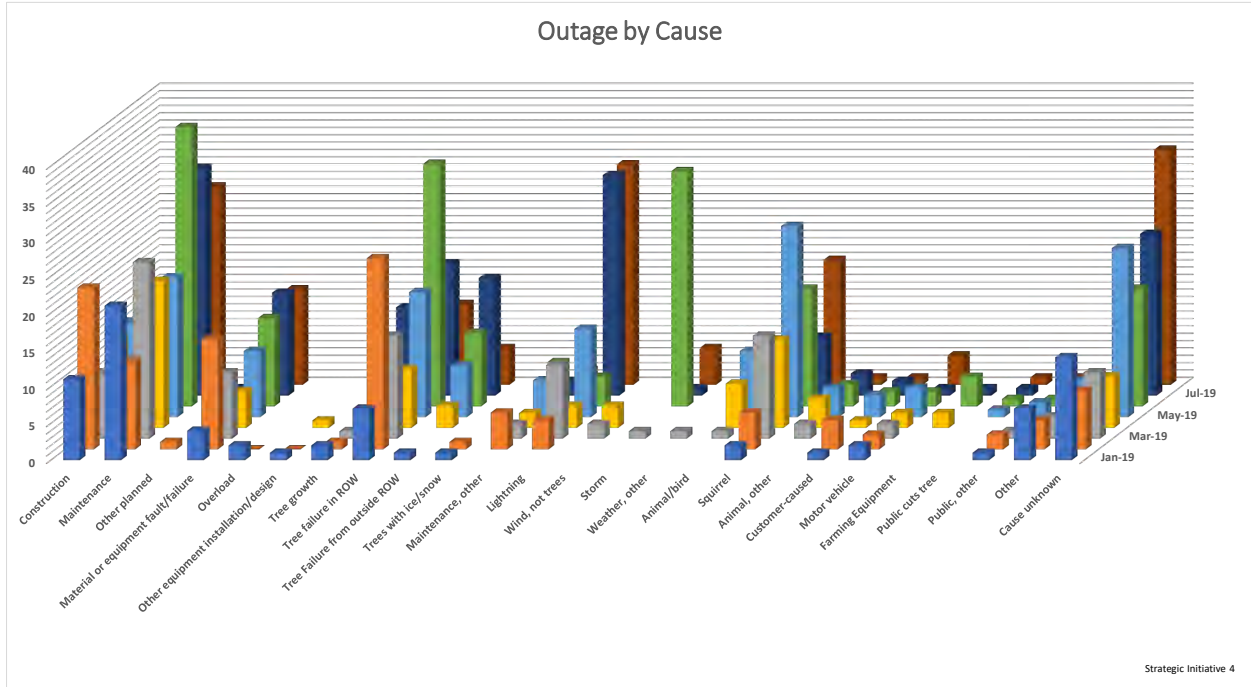
**Outages Indices:**

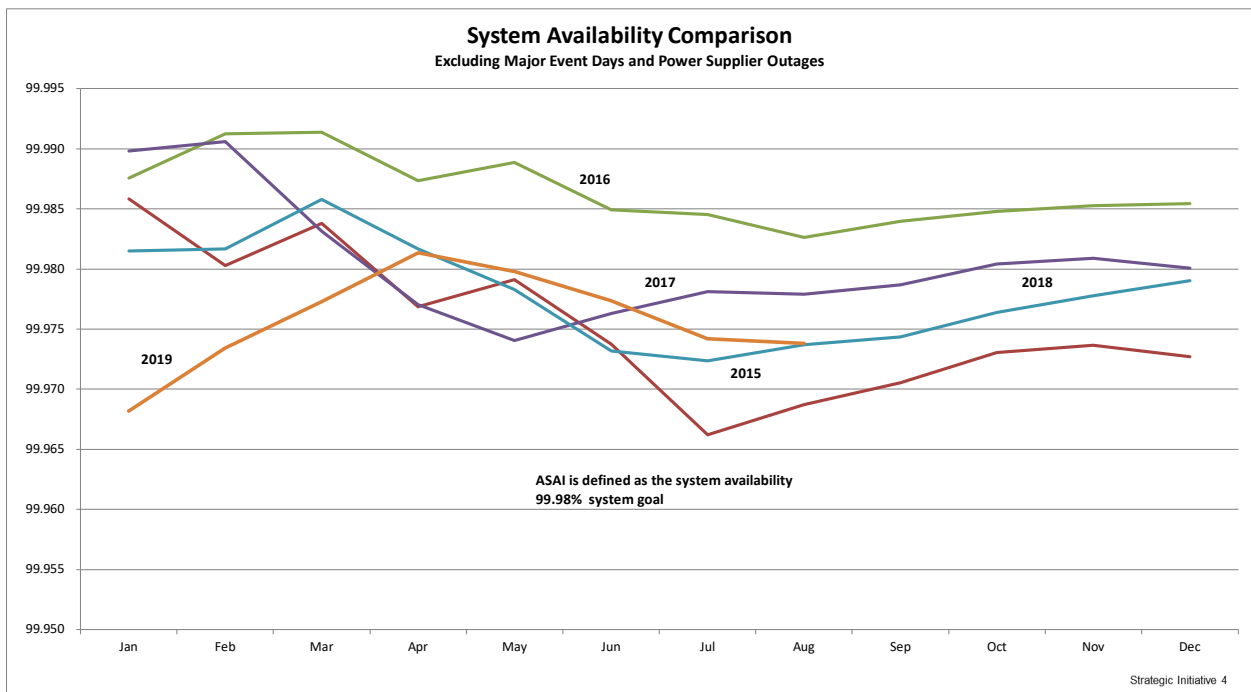
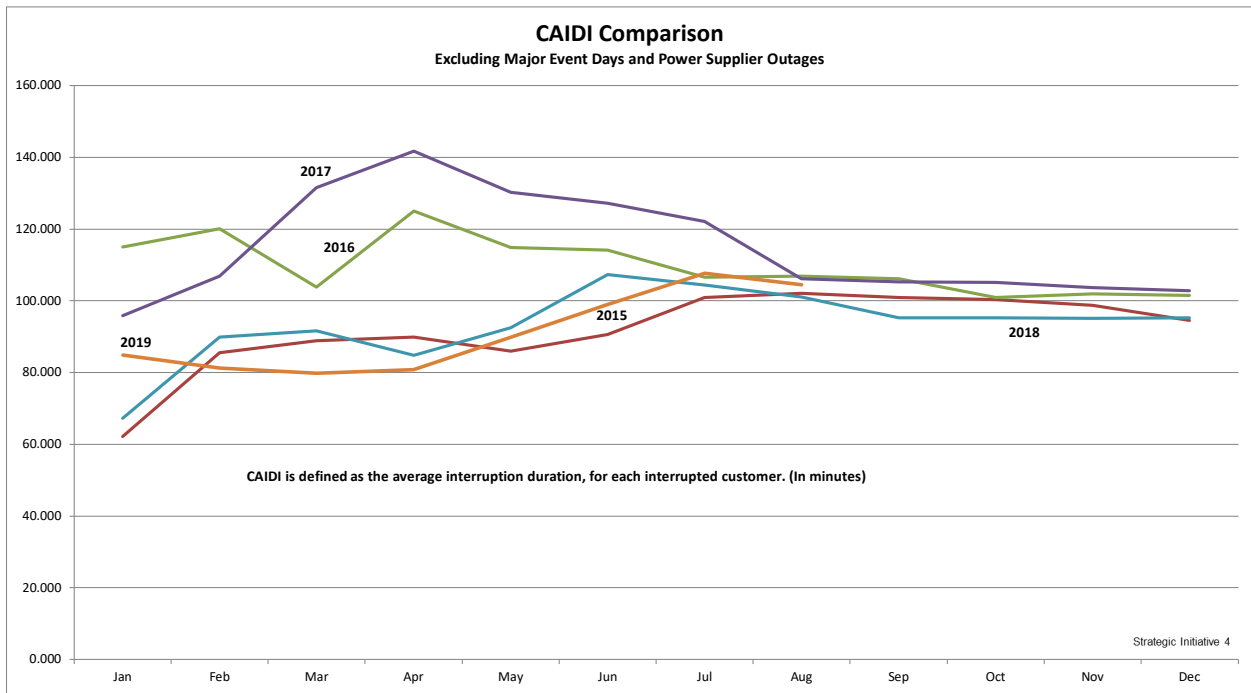
*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

# of Outages – 166

Customers Affected – 4,323

Customer Hours Total – 6,413.95





## ENGINEERING & OPERATIONS

### ONGOING PROJECTS

#### *Strategic Initiative 4 – System Operations & Member Support Efficiencies*

#### **Public Service Commission**

- Steve Kingsolver completed a Construction and Safety Inspection during the week of October 28<sup>th</sup> and found no deficiencies.

#### **RUS**

- Mike Norman was here on October 29<sup>th</sup> and conducted a Form 300 (Operation and Maintenance Review). No deficiencies were found.

#### **Substations:**

- The Kansas Substation upgrade is scheduled to begin in March. We will be having a kickoff meeting in mid-January.
- Results for the DVR System have been negligible this year as a result of the poor interface and reliability of the AMI System. The AMI interface has been updated to include the correct meter numbers and the DVR System is now fully operational. There should be results to share for the month of November.

### LINE INSPECTION

#### *Strategic Initiative 4 – System Operations & Member Support Efficiencies*

- We have two substations to complete by the end of the year. Shawn with Quality Resources is working on Smithland; Michelle is working on Strawberry Hill.
- We are developing a 2-year rotating schedule to implement after the first of the year.

### SYSTEM INFORMATION

#### *Strategic Initiative 4 – System Operations & Member Support Efficiencies*

One substation experienced a new peak during the month of September, 2019.

Substation	Old Peak Month	Old kW Peak	New Peak Month	New kW Peak
Strawberry Hill	May 2010	16,096.40	September 2019	16,750.80

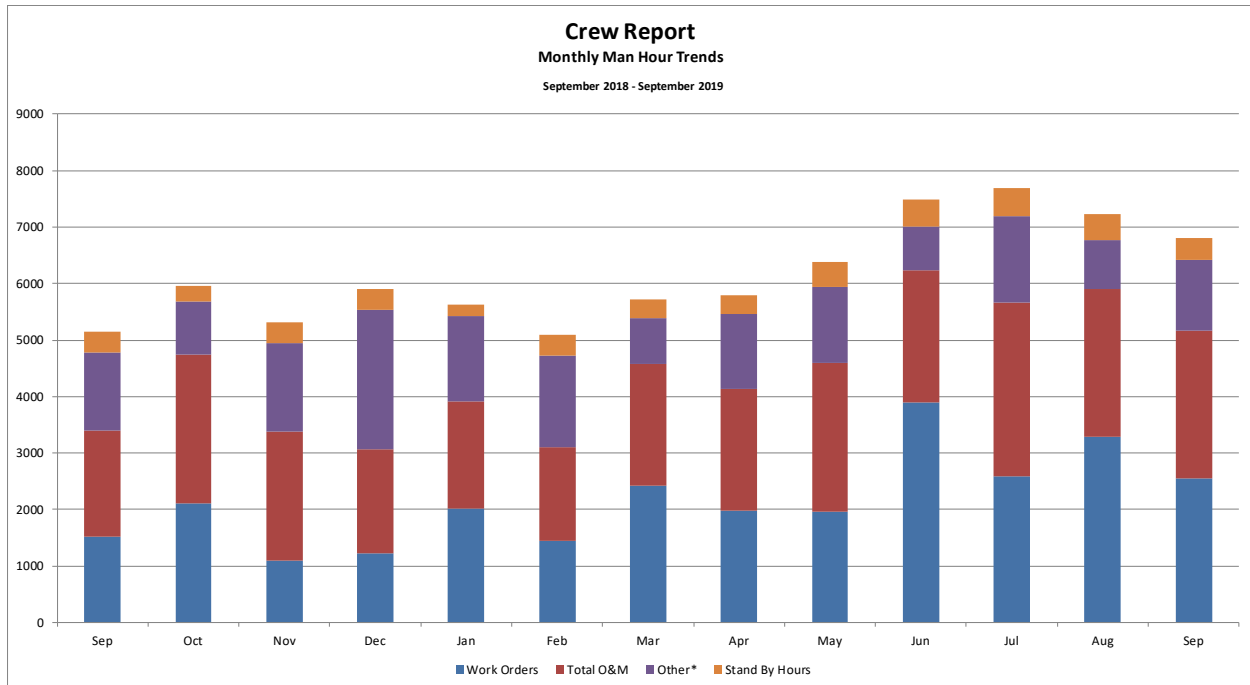
The Totals for the Rural System were:

System Coincidental Peak (9/13 4:00 pm)..... 132,255 kW  
Total System Energy Usage ..... 58,225,674 kWh



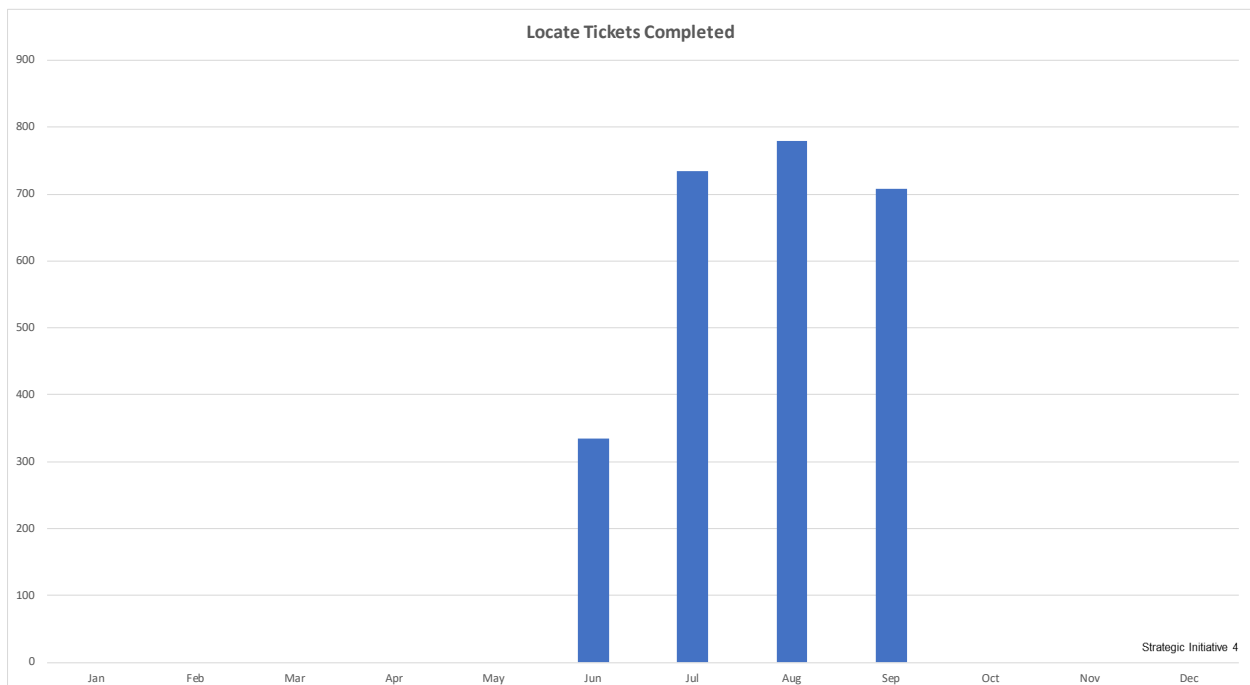
**LINE OPERATIONS**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*



For the month of September our line crews spent 2,559.50 man hours (39.9%) on work orders, 1,268.00 man hours (19.8%) on operations, 1,336.00 man hours (20.88%) on maintenance items and 1,251.53 man hours (19.5%) on holidays, vacation, sick, training, safety and inclement weather.

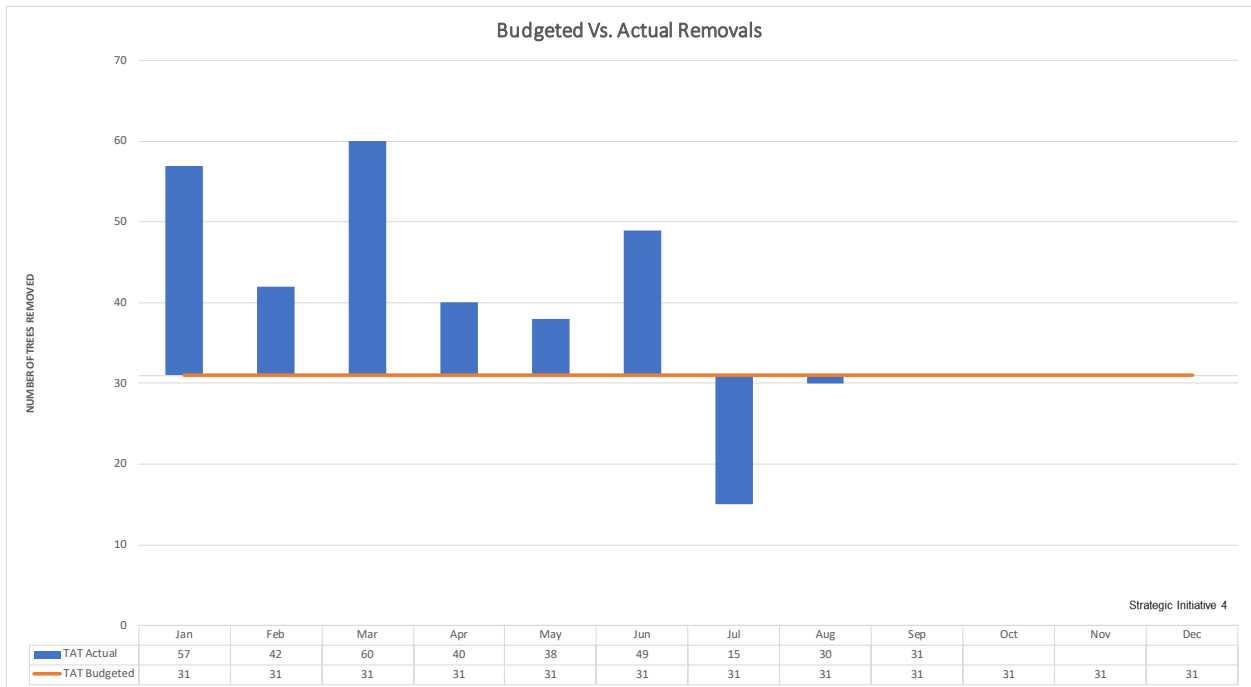
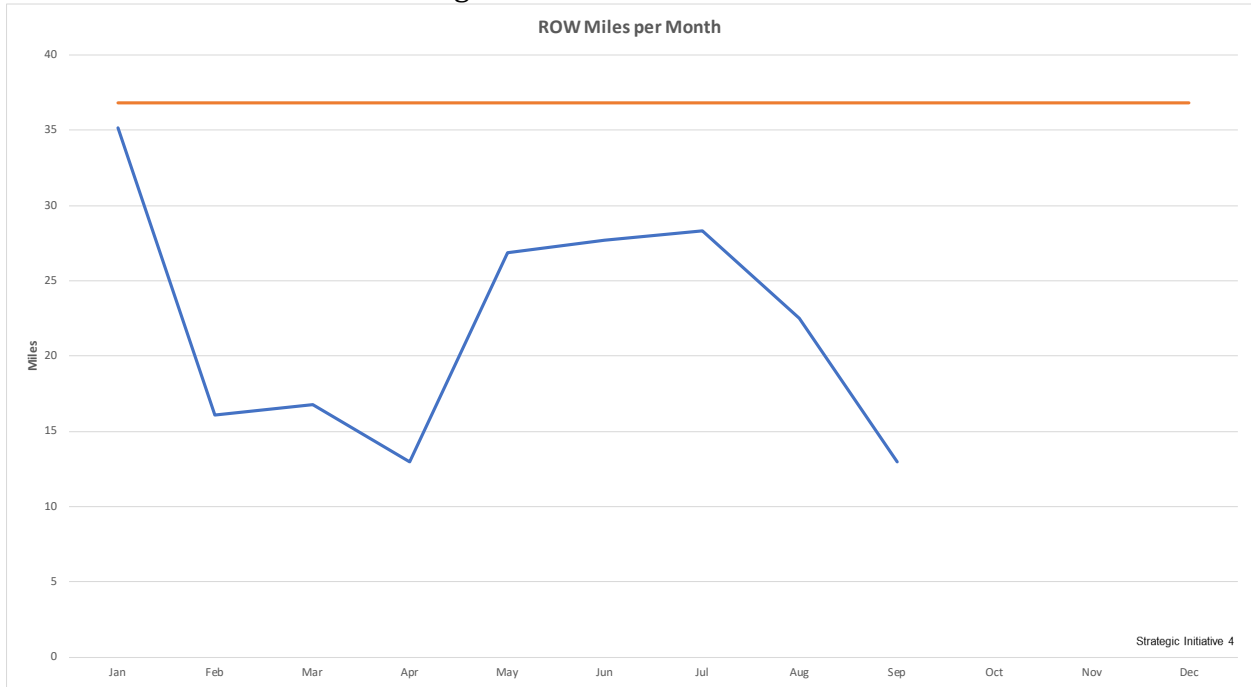
The standby crew was called out 53 times during September, totaling 395 hours of actual overtime paid during the month.



**Right-of-Way:**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

The Townsend crews are working on Tiline and Mitchel Store circuits out of Smithland.



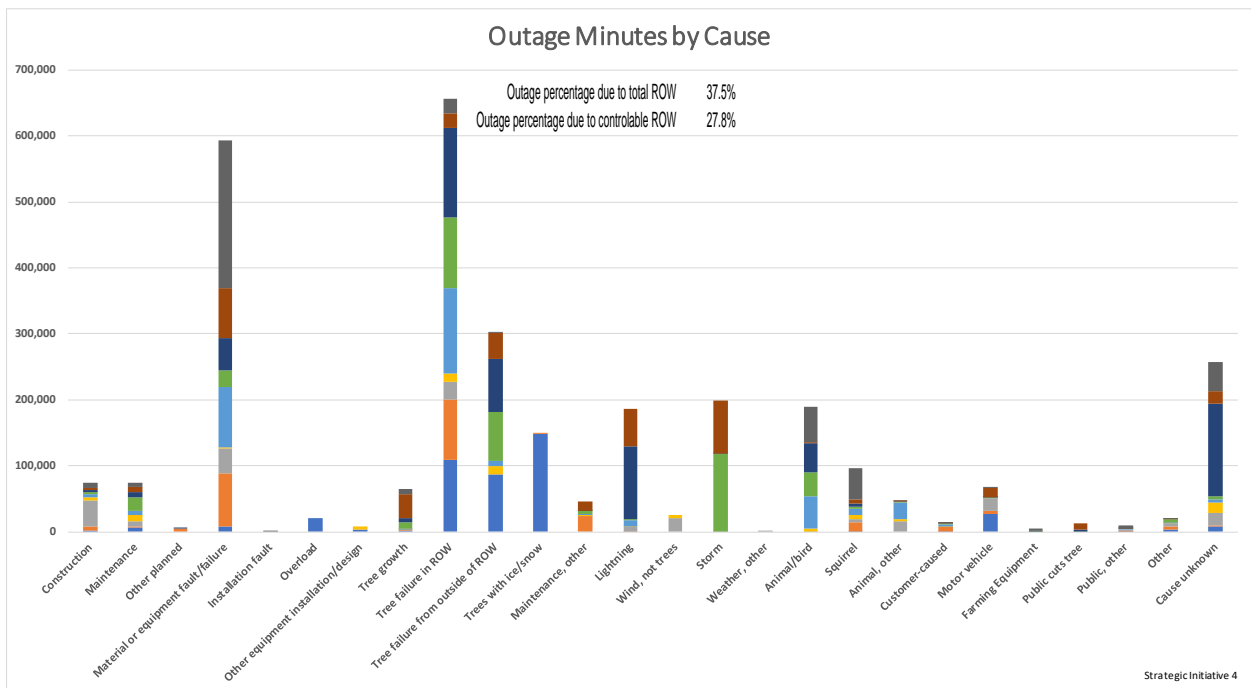
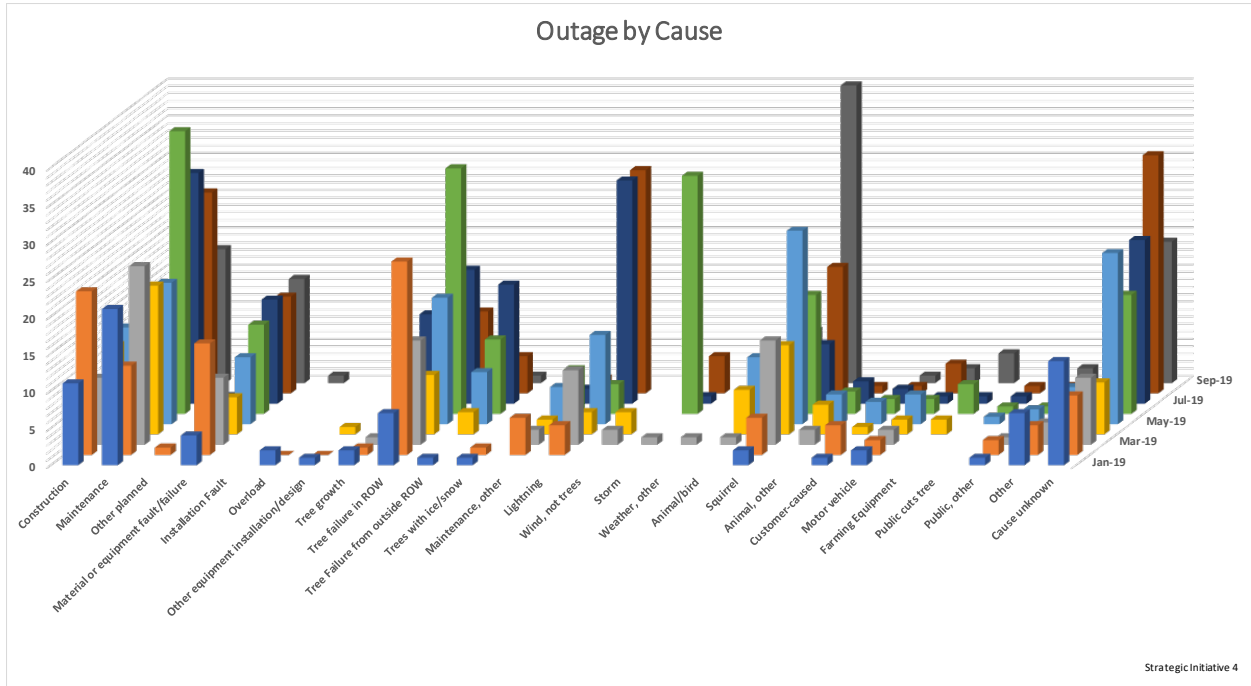
### Outages Indices:

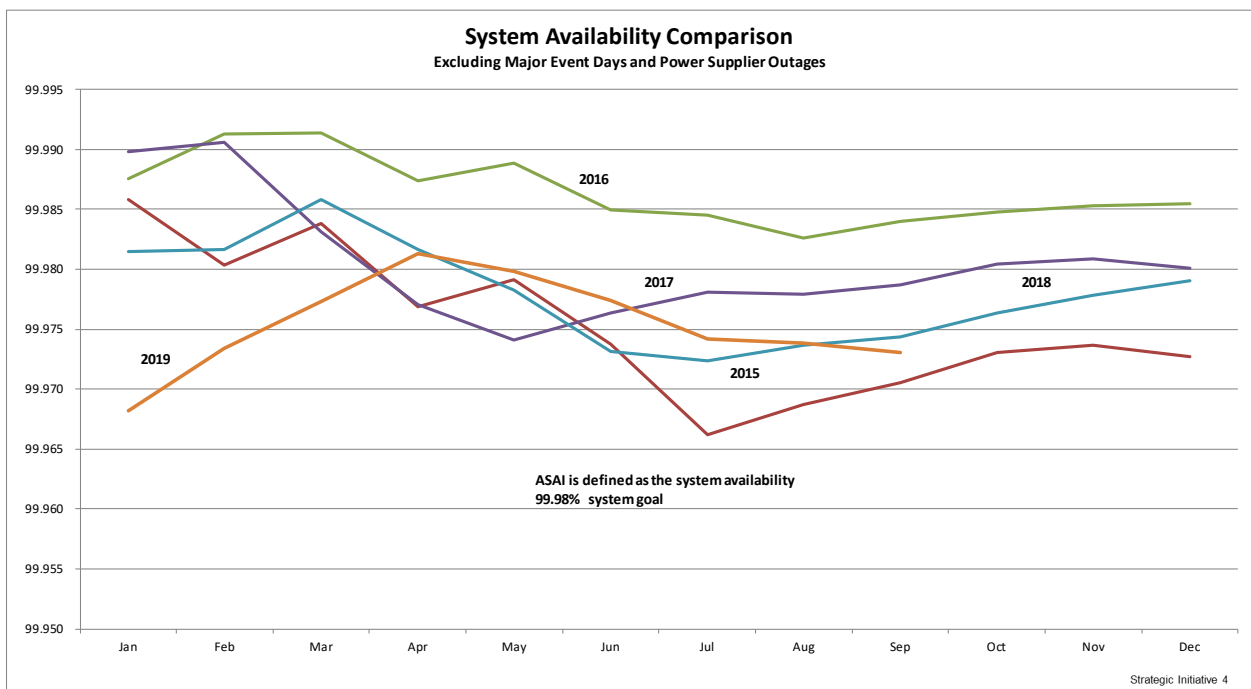
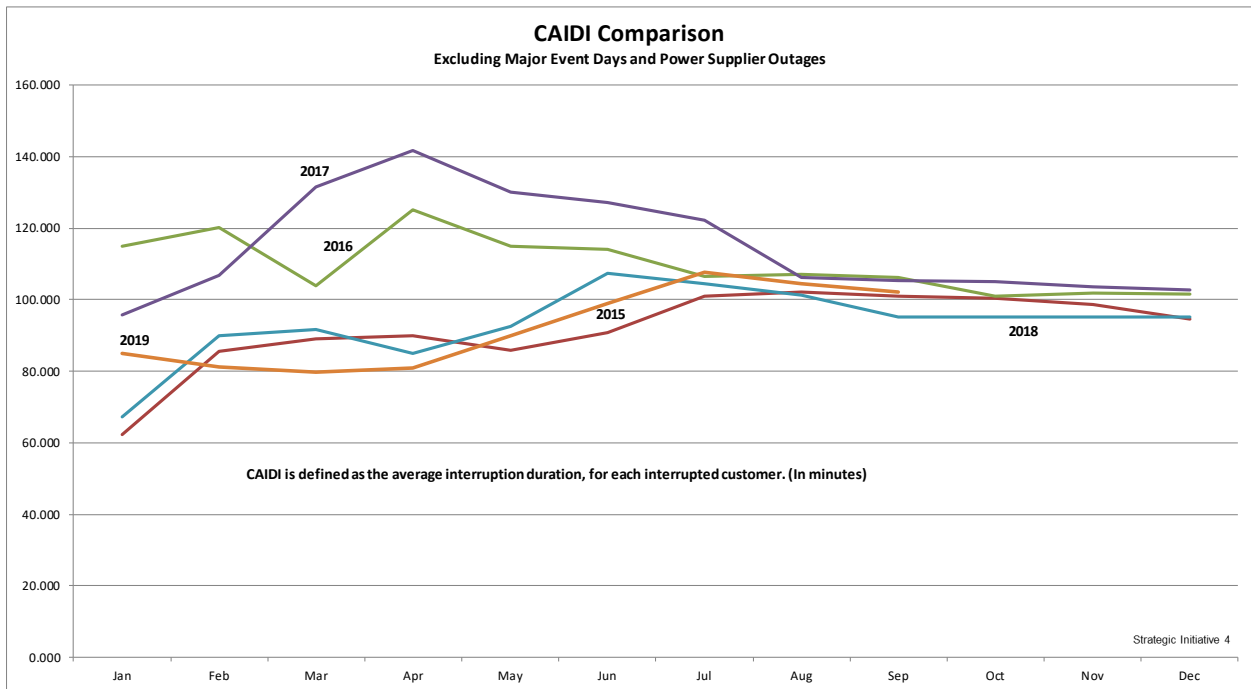
### Strategic Initiative 4 – System Operations & Member Support Efficiencies

# of Outages – 122

Customers Affected – 4,753

Customer Hours Total – 7,006.97





## **ENGINEERING & OPERATIONS**

### **ONGOING PROJECTS**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

#### **Public Service Commission**

- Steve Kingsolver completed a Construction and Safety Inspection during the week of October 28<sup>th</sup> and found no deficiencies.

#### **RUS**

- Mike Norman was here on October 29<sup>th</sup> and conducted a Form 300 (Operation and Maintenance Review). No deficiencies were found.

#### **Substations:**

- The Kansas Substation upgrade is scheduled to begin in March. We will be having a kickoff meeting in mid-January.
- Results for the DVR System have been negligible this year as a result of the poor interface and reliability of the AMI System. The AMI interface has been updated to include the correct meter numbers and the DVR System is now fully operational. There should be results to share for the month of November.

### **LINE INSPECTION**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

- We have two substations to complete by the end of the year. Shawn with Quality Resources is working on Smithland; Michelle is working on Strawberry Hill.
- We are developing a 2-year rotating schedule to implement after the first of the year.

### **SYSTEM INFORMATION**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

One substation experienced a new peak during the month of September, 2019.

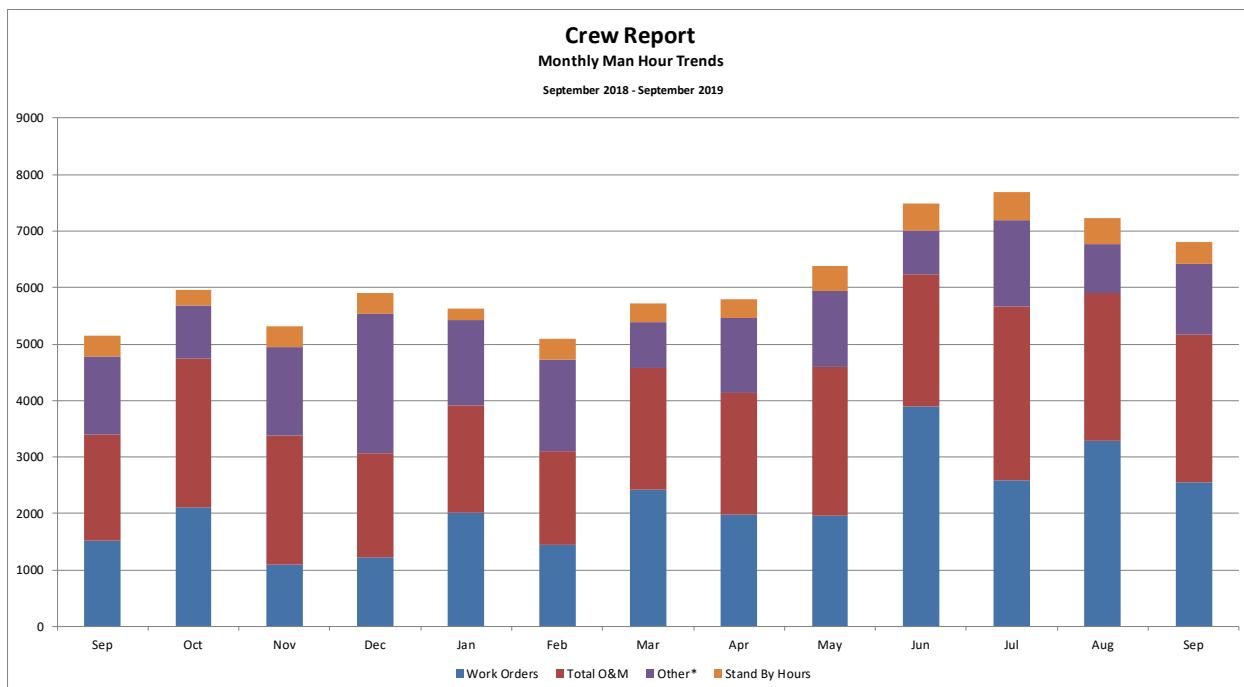
Substation	Old Peak Month	Old kW Peak	New Peak Month	New kW Peak
Strawberry Hill	May 2010	16,096.40	September 2019	16,750.80

The Totals for the Rural System were:

System Coincidental Peak (9/13 4:00 pm).....	132,255 kW
Total System Energy Usage .....	58,225,674 kWh

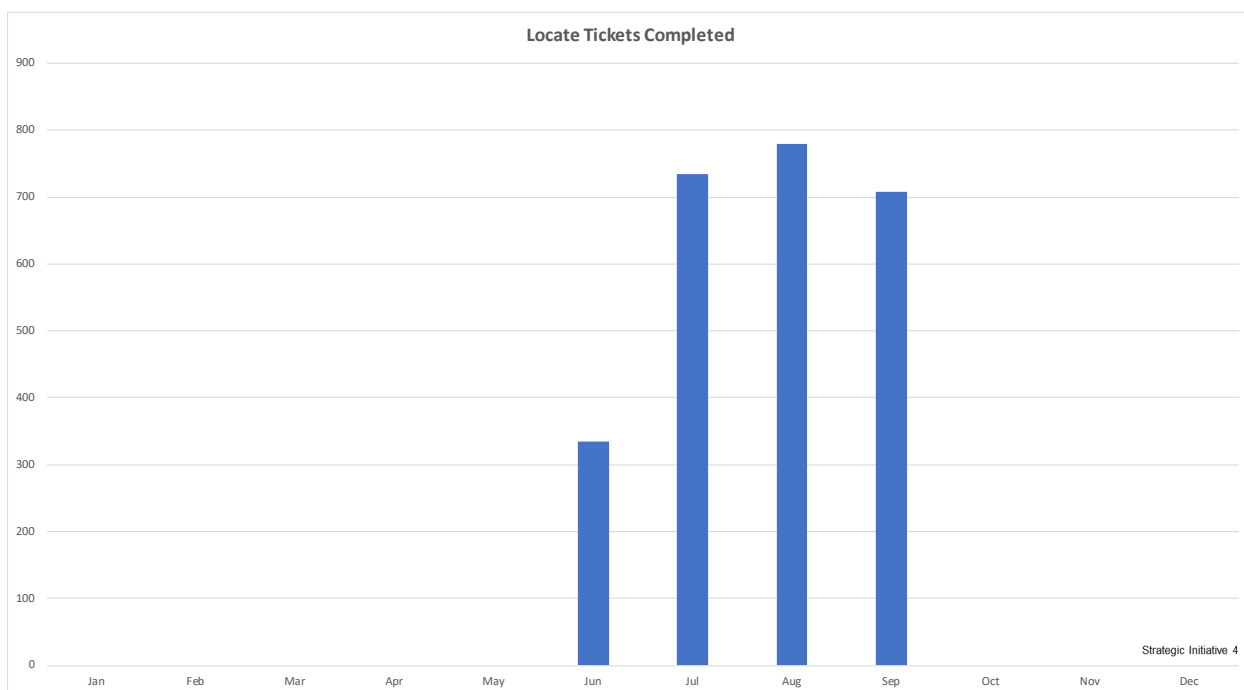
**LINE OPERATIONS**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*



For the month of September our line crews spent 2,559.50 man hours (39.9%) on work orders, 1,268.00 man hours (19.8%) on operations, 1,336.00 man hours (20.88%) on maintenance items and 1,251.53 man hours (19.5%) on holidays, vacation, sick, training, safety and inclement weather.

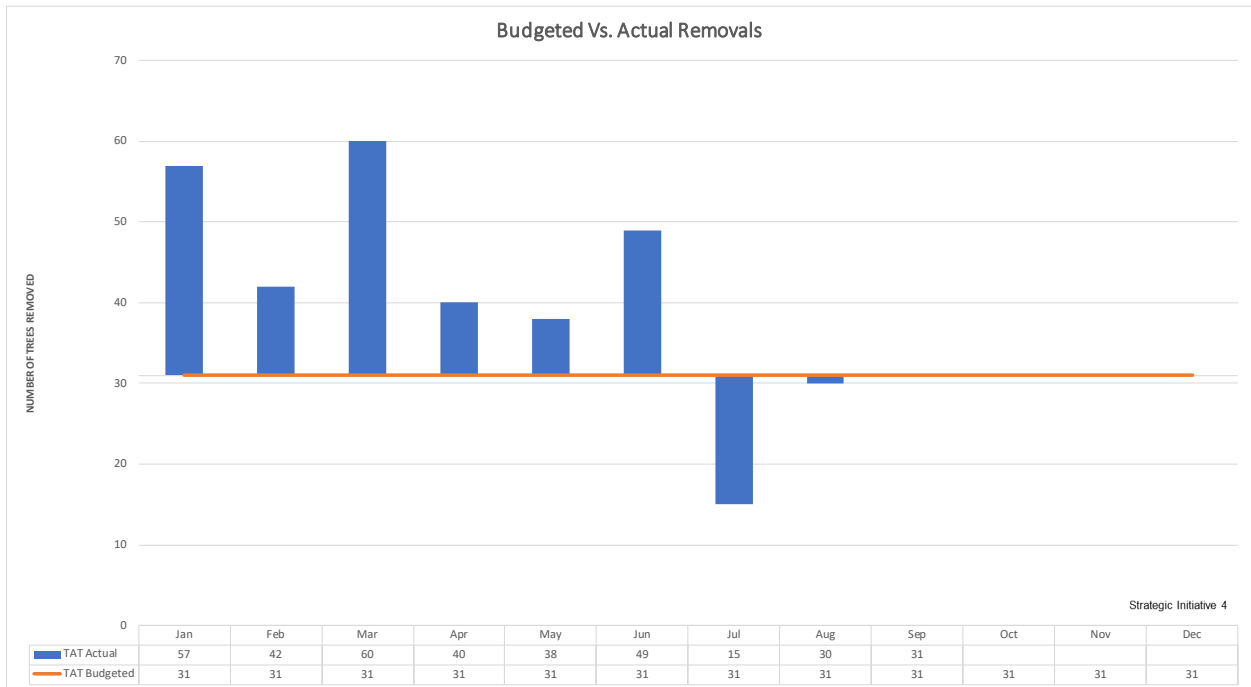
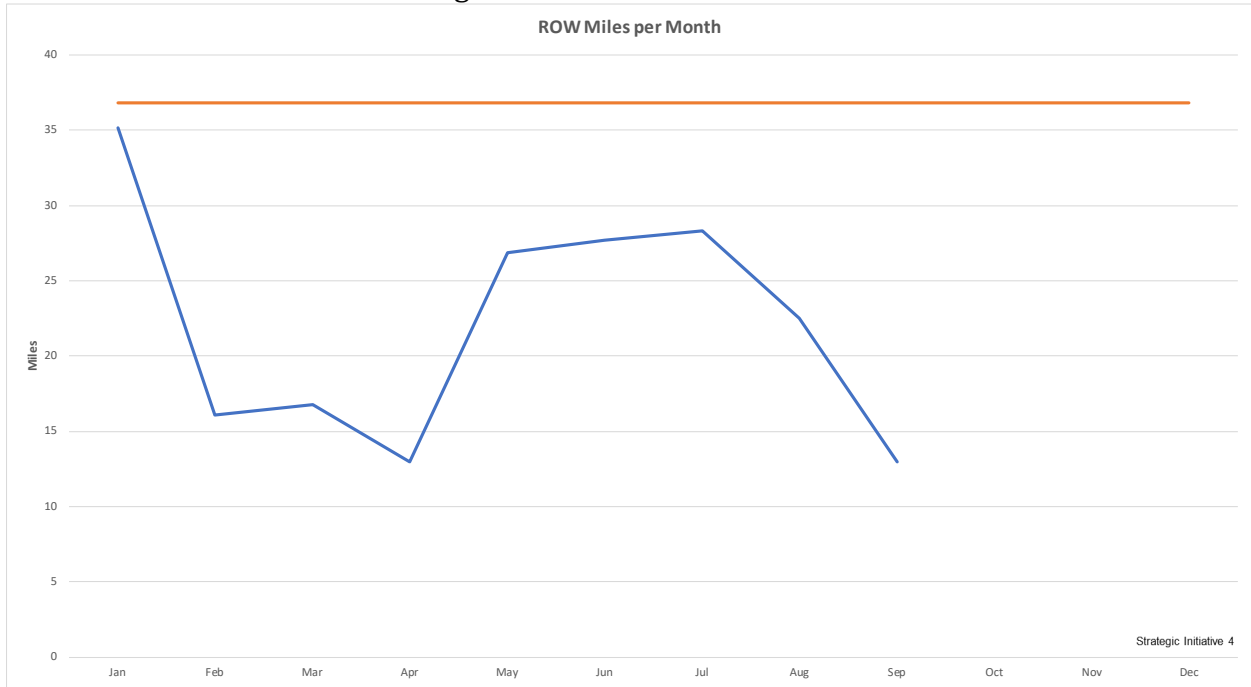
The standby crew was called out 53 times during September, totaling 395 hours of actual overtime paid during the month.



**Right-of-Way:**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

The Townsend crews are working on Tiline and Mitchel Store circuits out of Smithland.



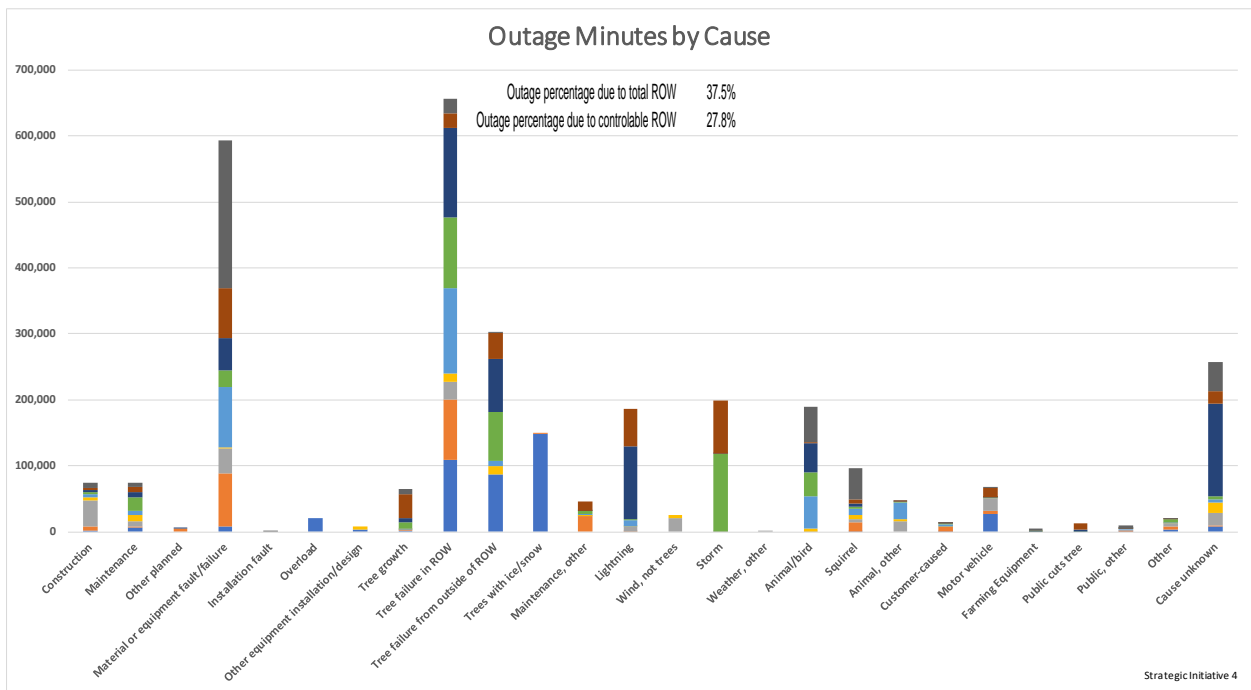
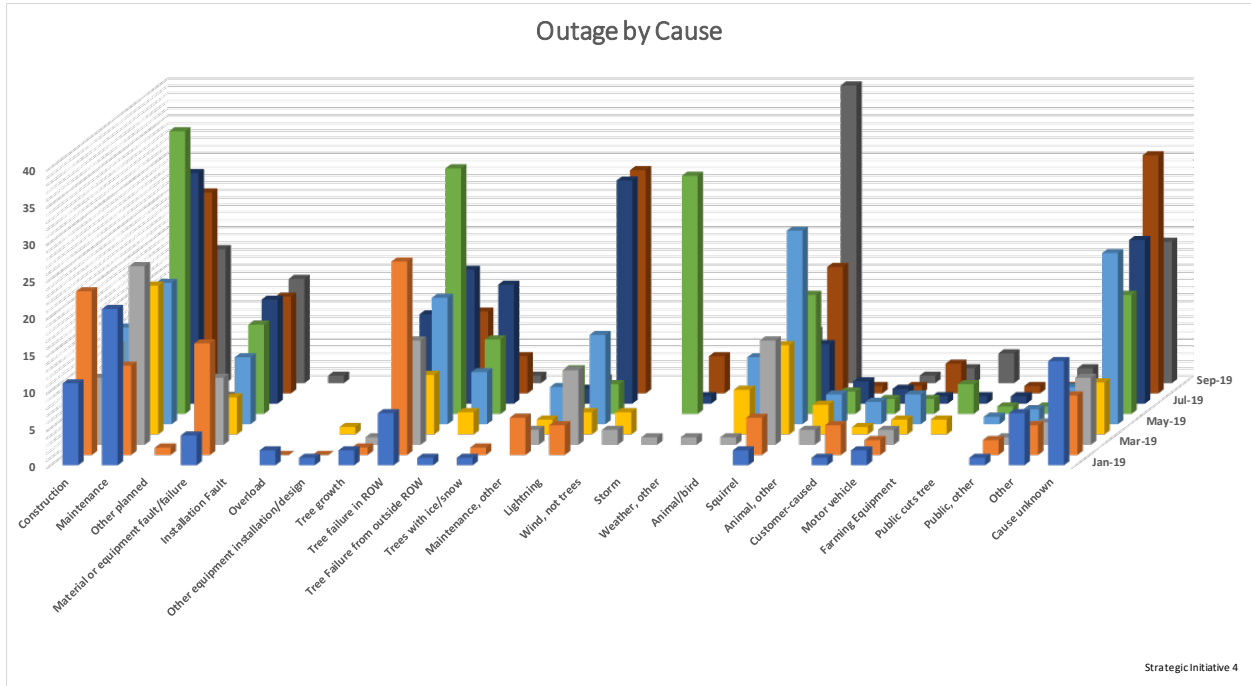
### Outages Indices:

### Strategic Initiative 4 – System Operations & Member Support Efficiencies

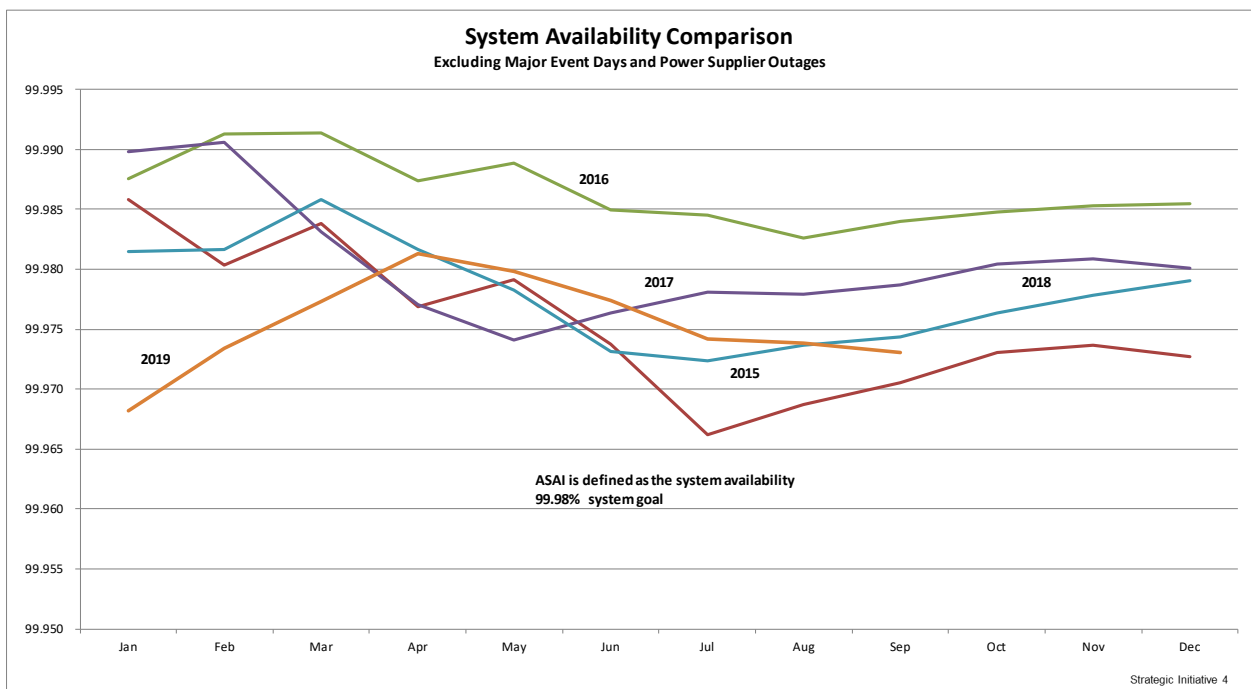
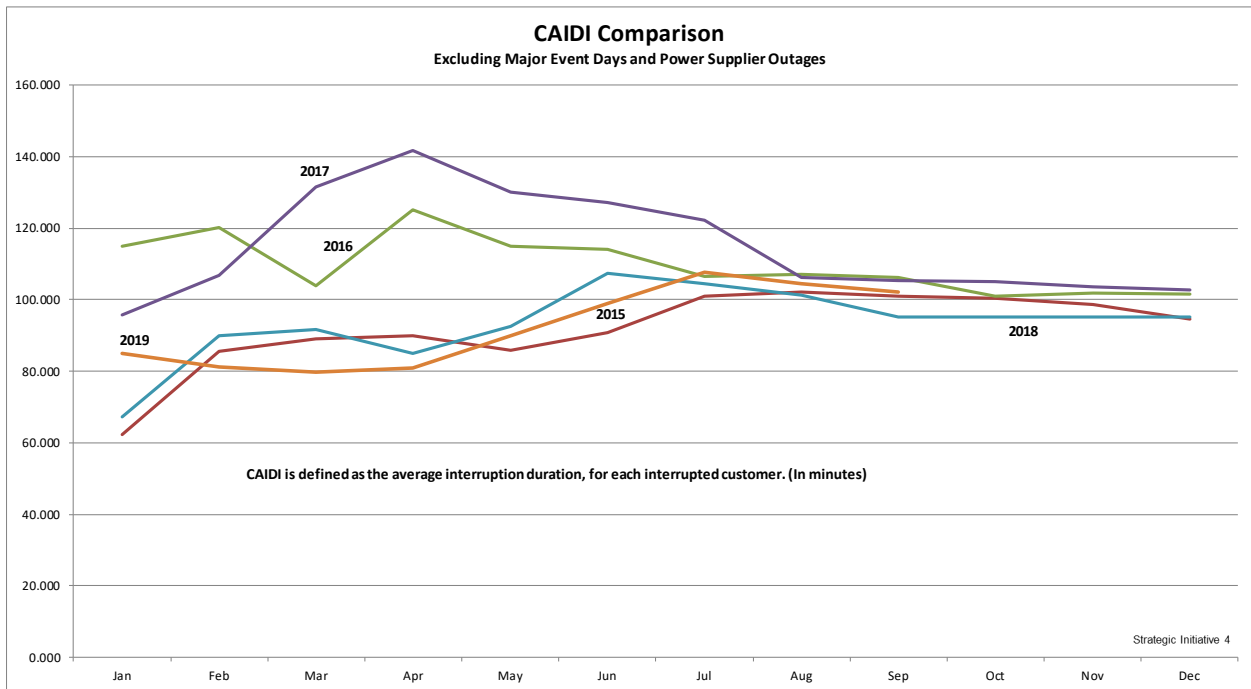
# of Outages – 122

Customers Affected – 4,753

Customer Hours Total – 7,006.97







## **ENGINEERING & OPERATIONS**

### **CAPITAL PROJECTS**

#### *Strategic Initiative 4 – System Operations & Member Support Efficiencies*

For the month of October 2019, 237 work orders were closed at a total cost of \$1,050,238.53. Of those, 50 were categorized “New Construction” at an average cost of \$2,915.53.

For the month of November 2019, 191 work orders were closed at a total cost of \$487,372.68. Of those, 35 were categorized “New Construction” at an average cost of \$2,964.70.

### **ONGOING PROJECTS**

#### *Strategic Initiative 4 – System Operations & Member Support Efficiencies*

#### **RUS**

- All work plan projects have been environmentally cleared to proceed

#### **Substations:**

- Service Electric began their work at Kansas on 12/6. That project is scheduled to be completed by the end of May

### **LINE INSPECTION**

#### *Strategic Initiative 4 – System Operations & Member Support Efficiencies*

- Shawn with Quality Resources is working on New York, Michelle has moved on to Olivet Church Rd.

### **SYSTEM INFORMATION**

#### *Strategic Initiative 4 – System Operations & Member Support Efficiencies*

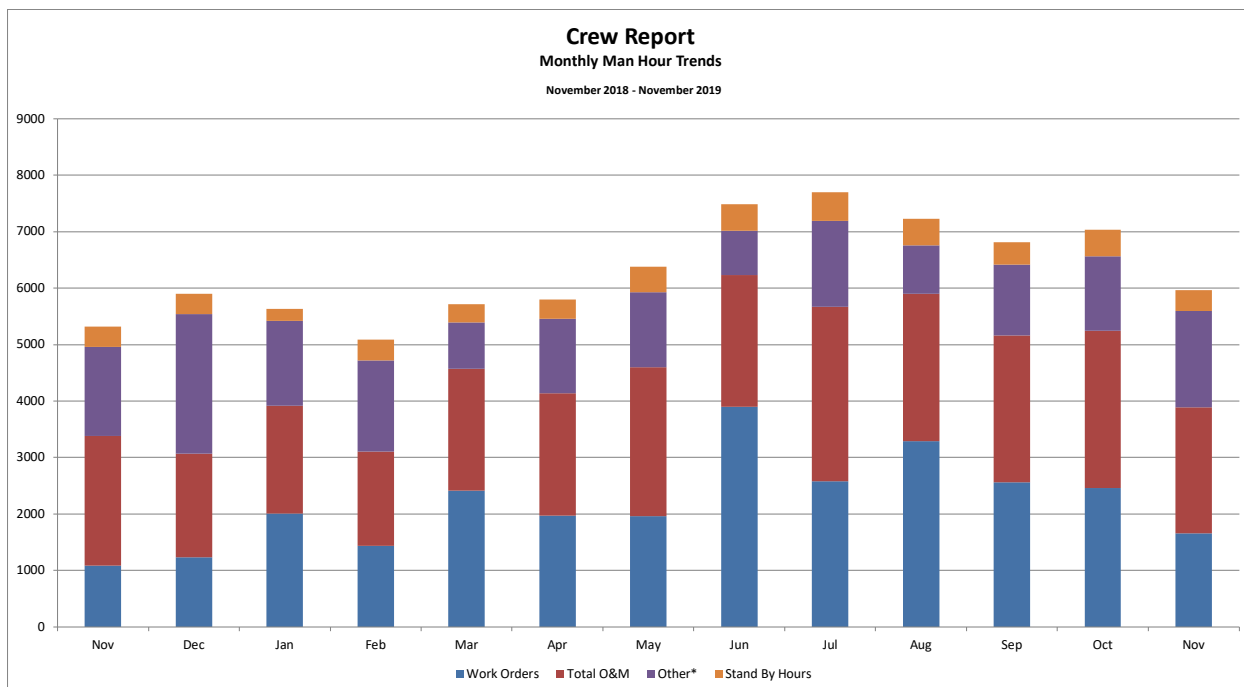
No substation experienced a new peak during the month of November 2019.

The Totals for the Rural System were:

System Coincidental Peak (11/13 6:30 am).....	116,906 kW
Total System Energy Usage .....	51,704,599 kWh

**LINE OPERATIONS**

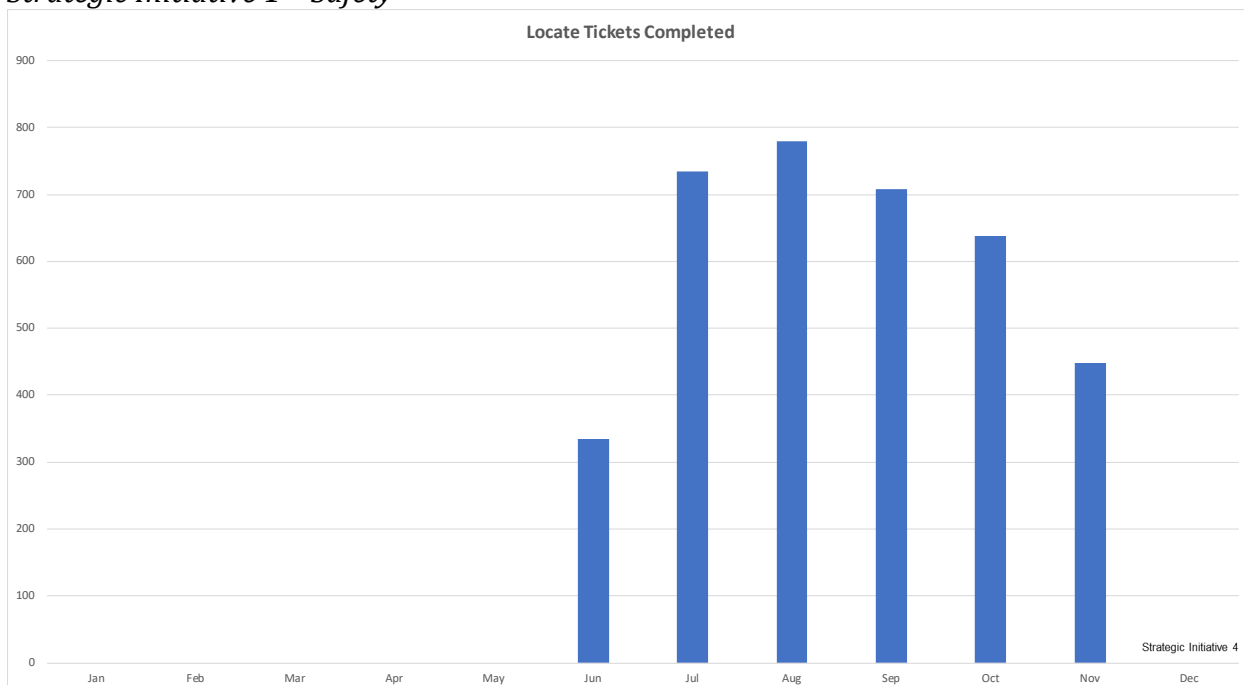
*Strategic Initiative 4 – System Operations & Member Support Efficiencies*



For the month of November our line crews spent 1,659.0 man hours (29.7%) on work orders, 1,012.0 man hours (18.1%) on operations, 1,221.0 man hours (21.8%) on maintenance items and 1,700.5 man hours (30.4%) on holidays, vacation, sick, training, safety and inclement weather. The standby crew was called out 48 times during November, totaling 373.5 hours of actual overtime paid during the month.

**LOCATES**

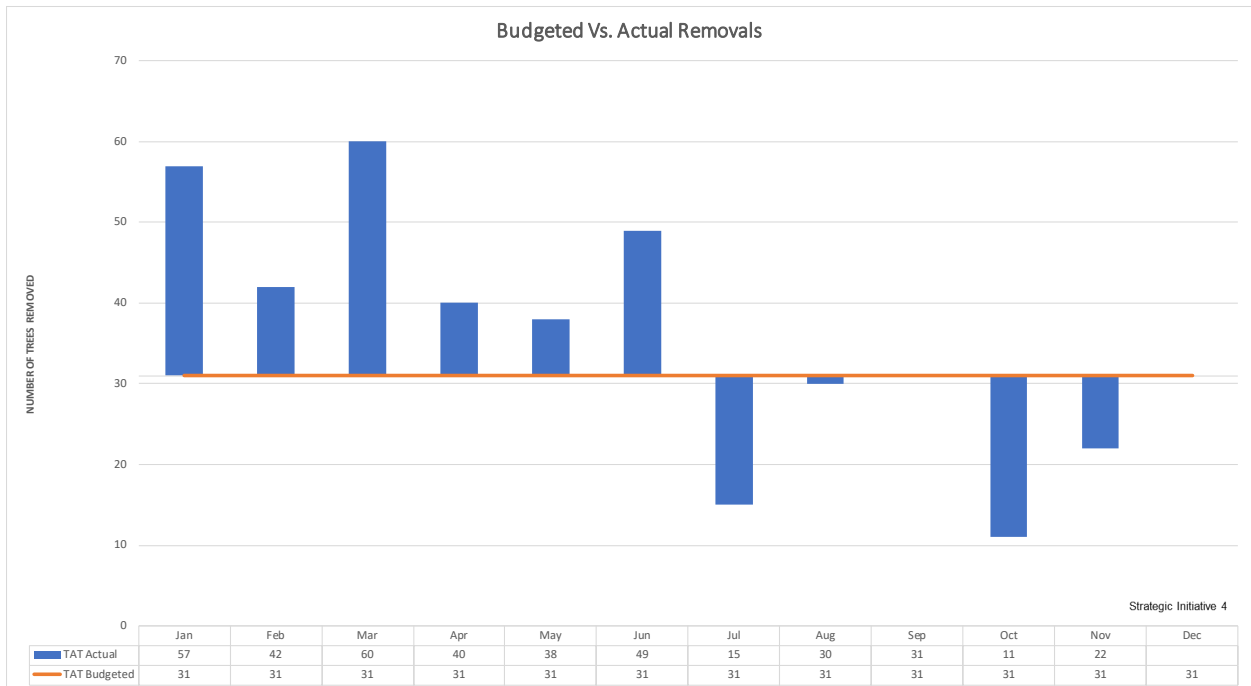
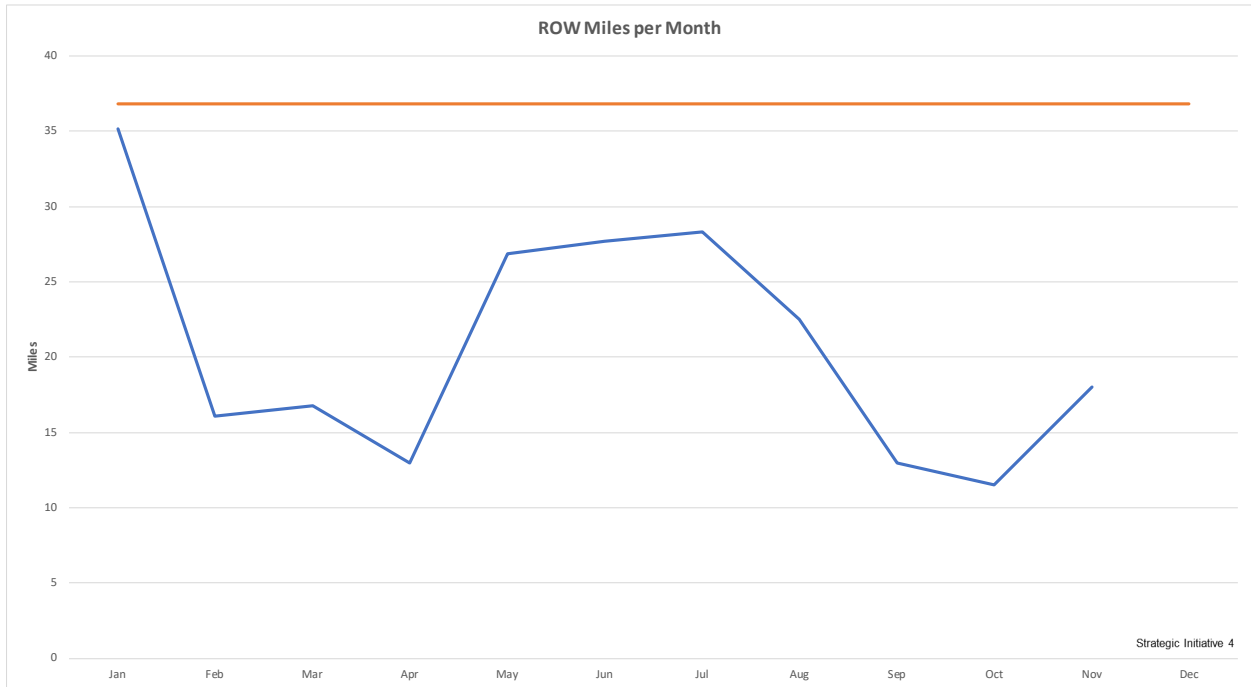
*Strategic Initiative 1 – Safety*



**Right-of-Way:**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

The Townsend crews finished all circuits out of Smithland in December.



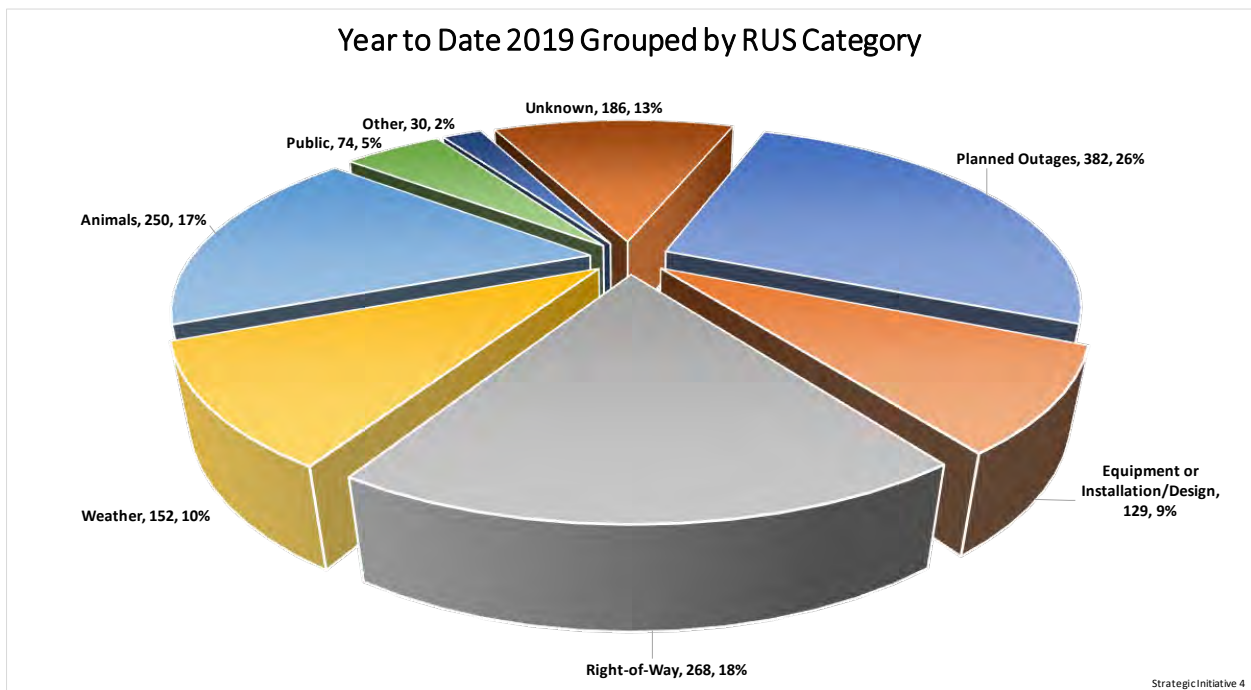
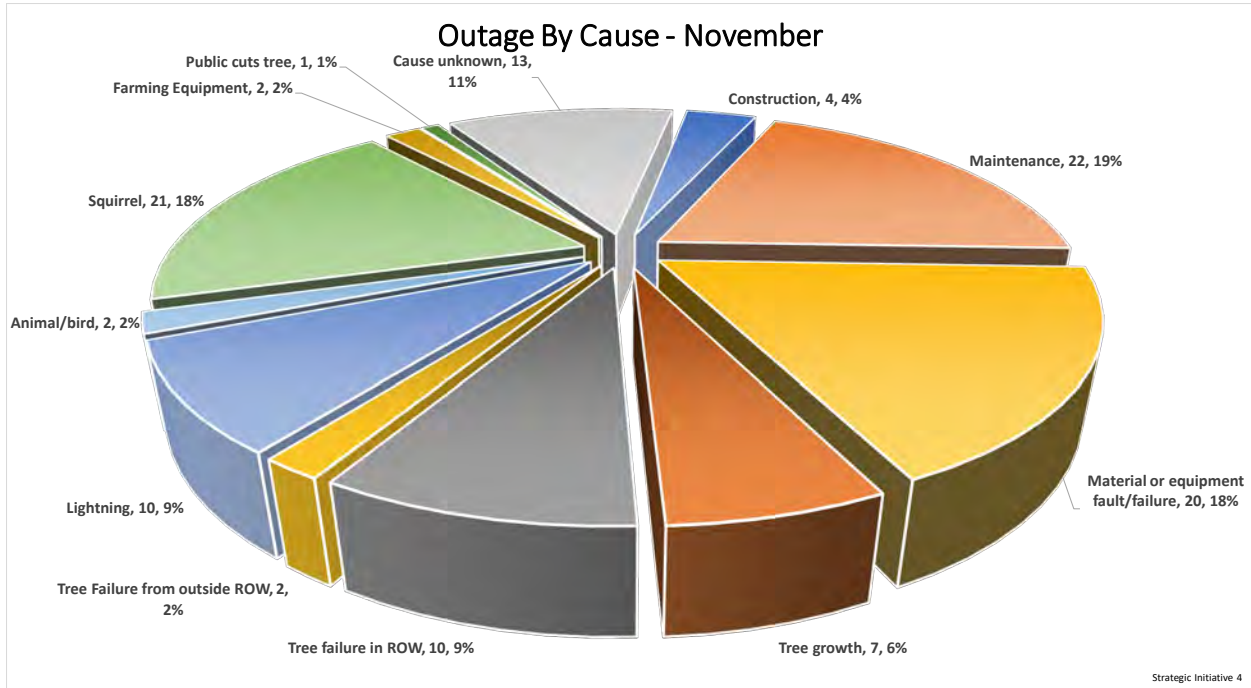
**Outages Indices:**

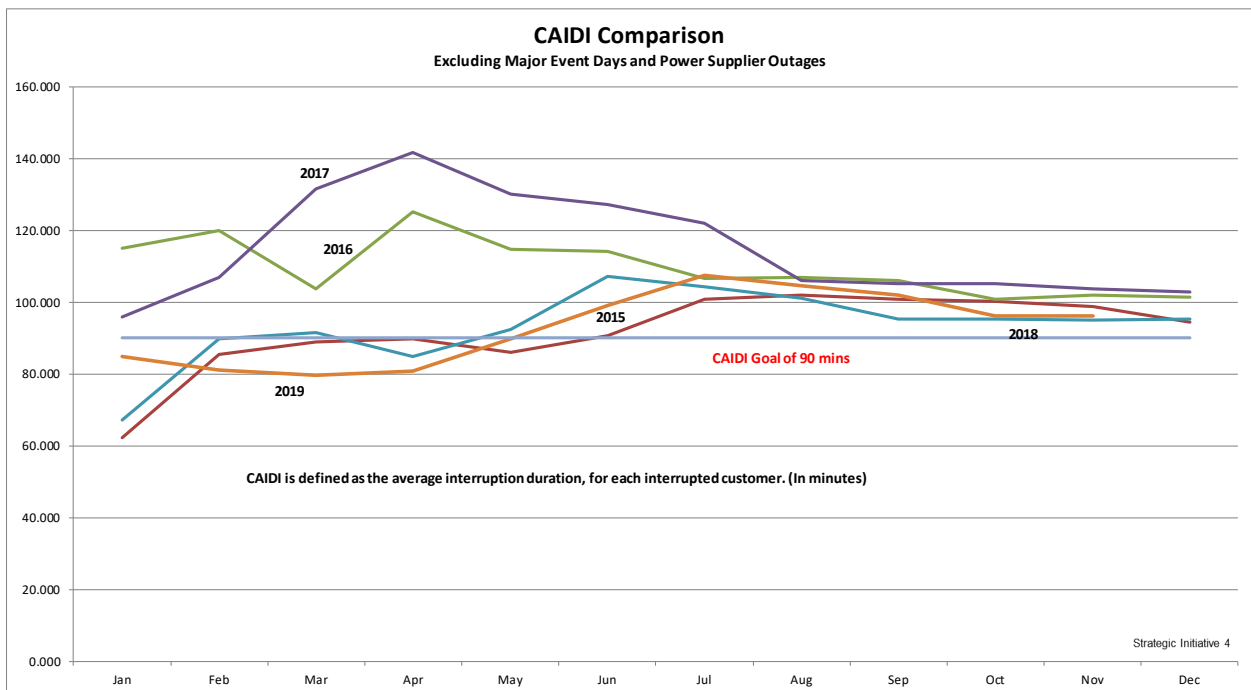
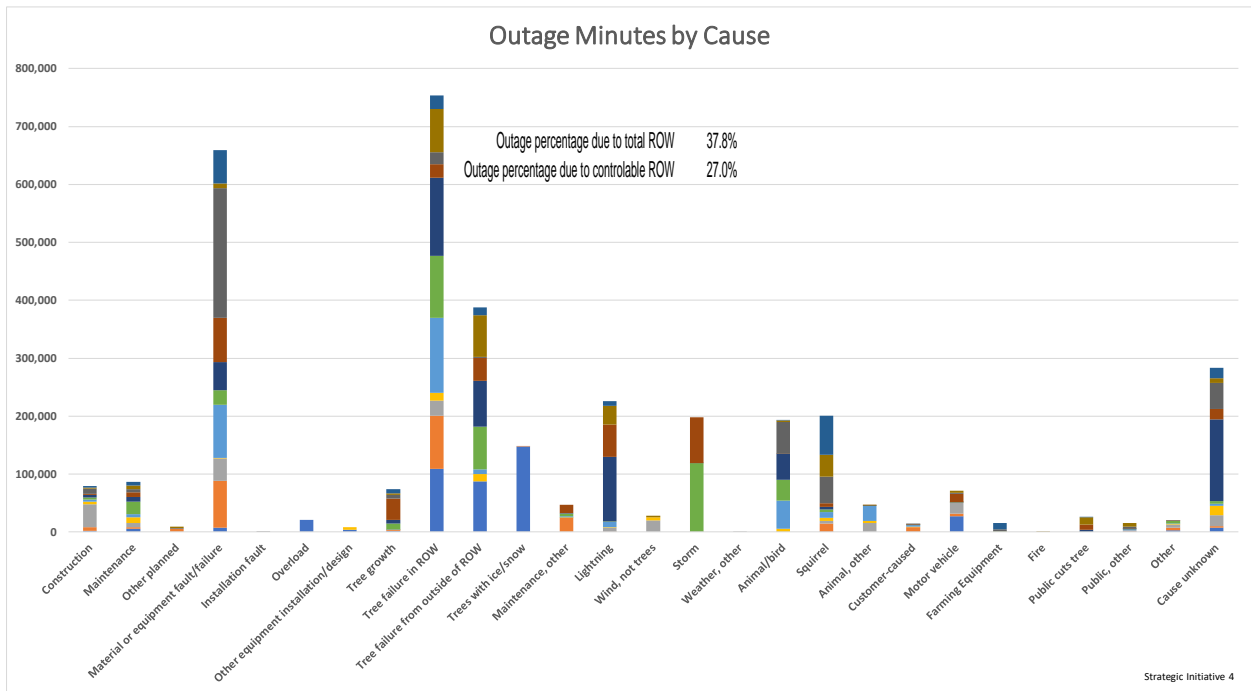
*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

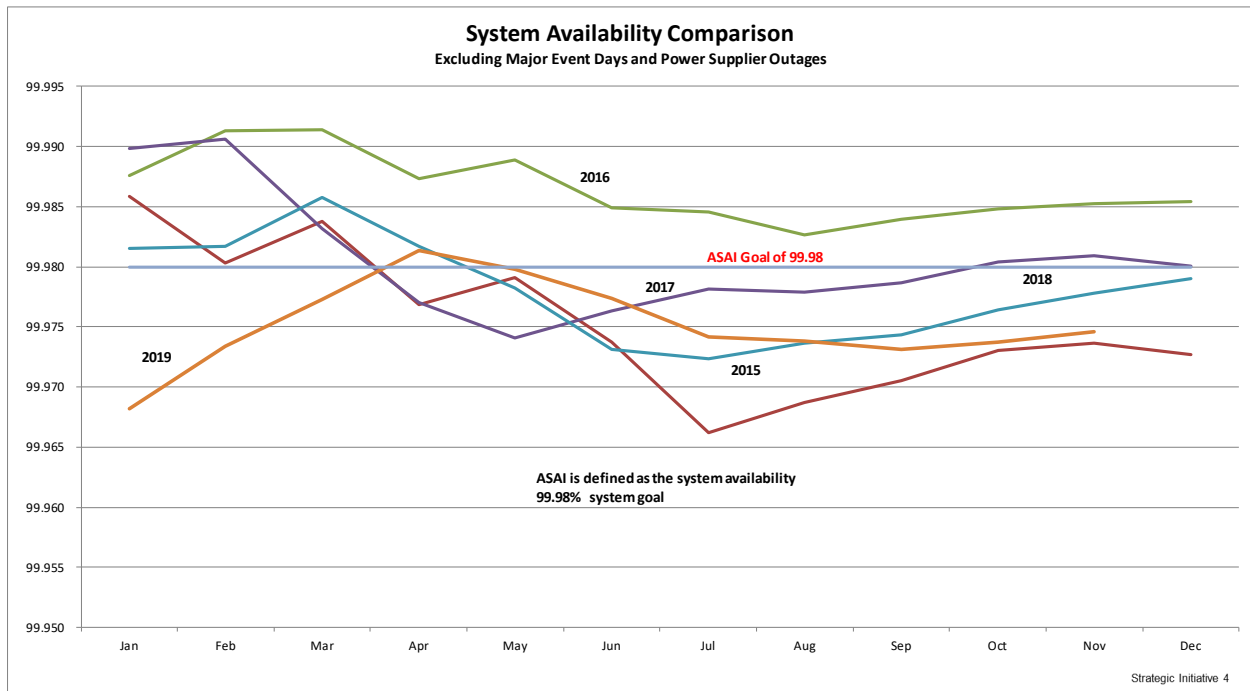
# of Outages – 114

Customers Affected – 2,263

Customer Hours Total – 3,598







## ENGINEERING & OPERATIONS

### **CAPITAL PROJECTS**

#### *Strategic Initiative 4 – System Operations & Member Support Efficiencies*

For the month of December 2019, 284 work orders were closed at a total cost of \$620,356.91. Of those, 45 were categorized “New Construction” at an average cost of \$2,894.50.

### **ONGOING PROJECTS**

#### *Strategic Initiative 4 – System Operations & Member Support Efficiencies*

#### **CWP**

- Bridge agreements for both the Smithland and Ledbetter bridges have been turned into the state. We are currently working on the RR crossing application.

#### **PSC**

- The PSC has undertaken a review of their Administrative Regulations and have made several proposed changes to:
  - 807 KAR 5:001 (Rules of Procedure)
  - 807 KAR 5:006 (General Rules)
  - 807 KAR 5:011 (Tariffs)
  - 2 new proposed regulations on pole attachments and general definitions
- More can be found at <https://psc.ky.gov/home/pscregulations>

#### **Substations:**

- Service Electric began their work at Kansas on 12/6. That project is scheduled to be completed by the end of May

### **LINE INSPECTION**

#### *Strategic Initiative 4 – System Operations & Member Support Efficiencies*

- Shawn with Quality Resources is working on New York, Michelle has moved on to Olivet Church Rd.

### **SYSTEM INFORMATION**

#### *Strategic Initiative 4 – System Operations & Member Support Efficiencies*

No substation experienced a new peak during the month of December 2019.

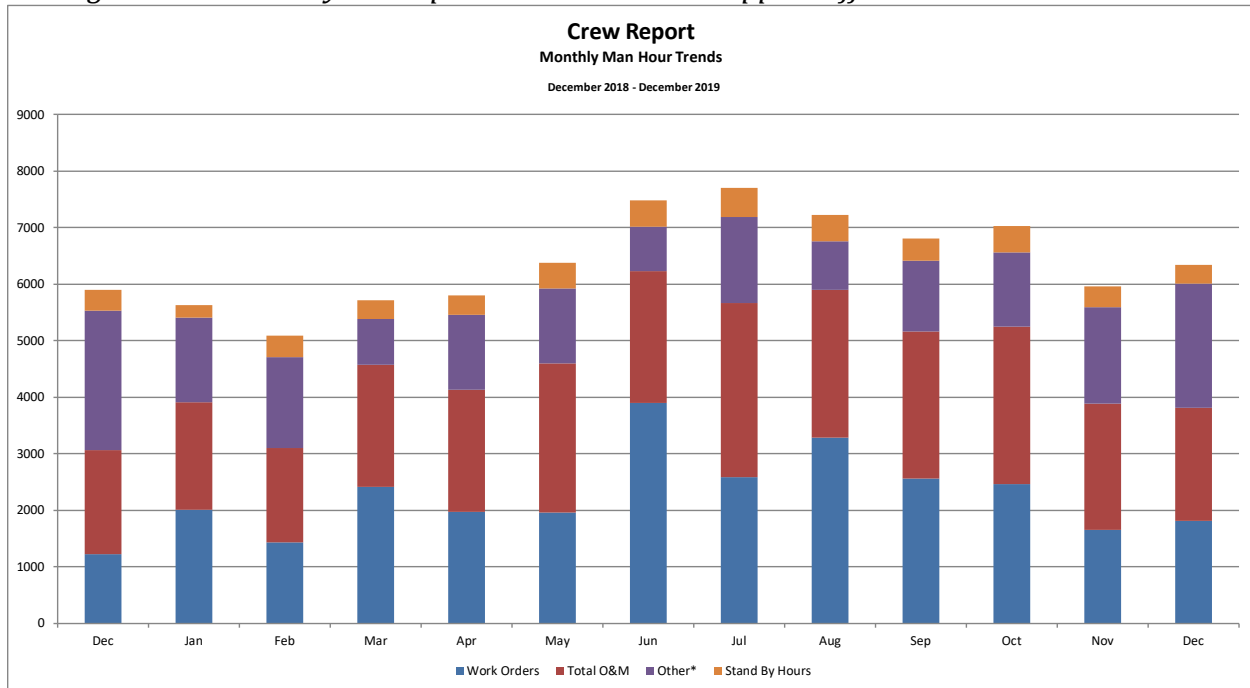
The Totals for the Rural System were:

System Coincidental Peak (12/19 7:00 am).....	111,198 kW
Total System Energy Usage .....	54,734,906 kWh



**LINE OPERATIONS**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

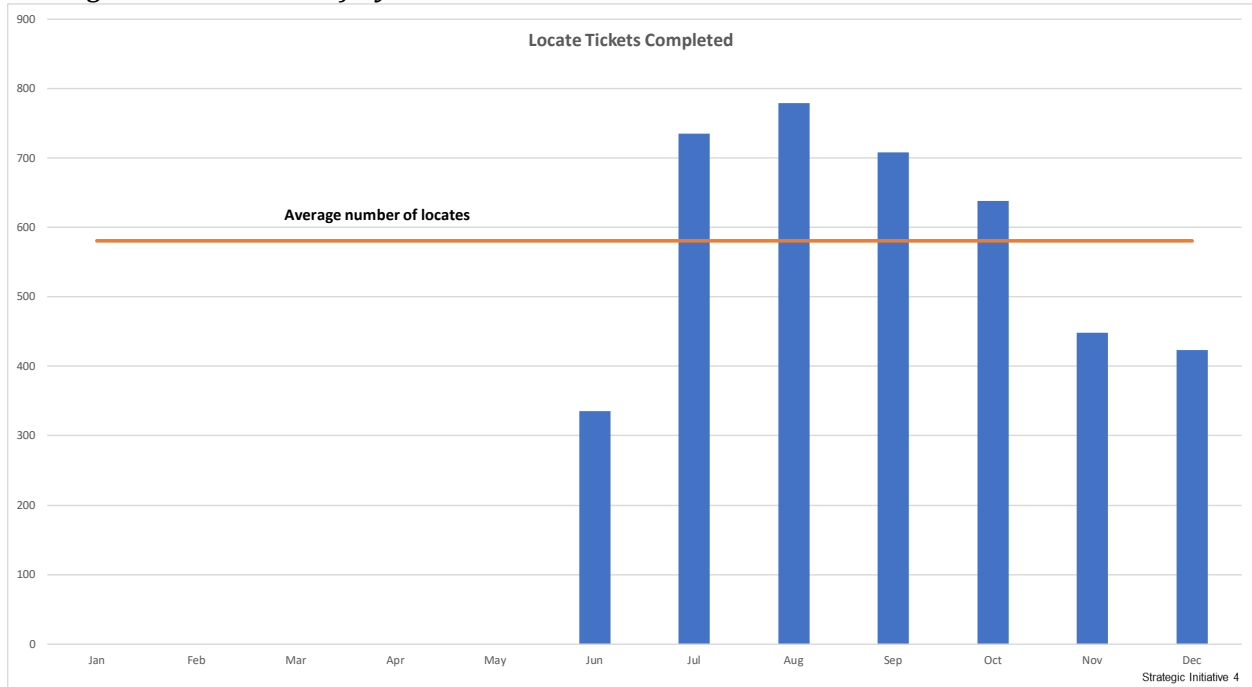


For the month of December our line crews spent 1,818.00 man hours (30.26%) on work orders, 835.00 man hours (13.90%) on operations, 1,164.50 man hours (19.39%) on maintenance items and 2,189.45 man hours (36.45%) on holidays, vacation, sick, training, safety and inclement weather.

The standby crew was called out 44 times during December, totaling 334 hours of actual overtime paid during the month.

**LOCATES**

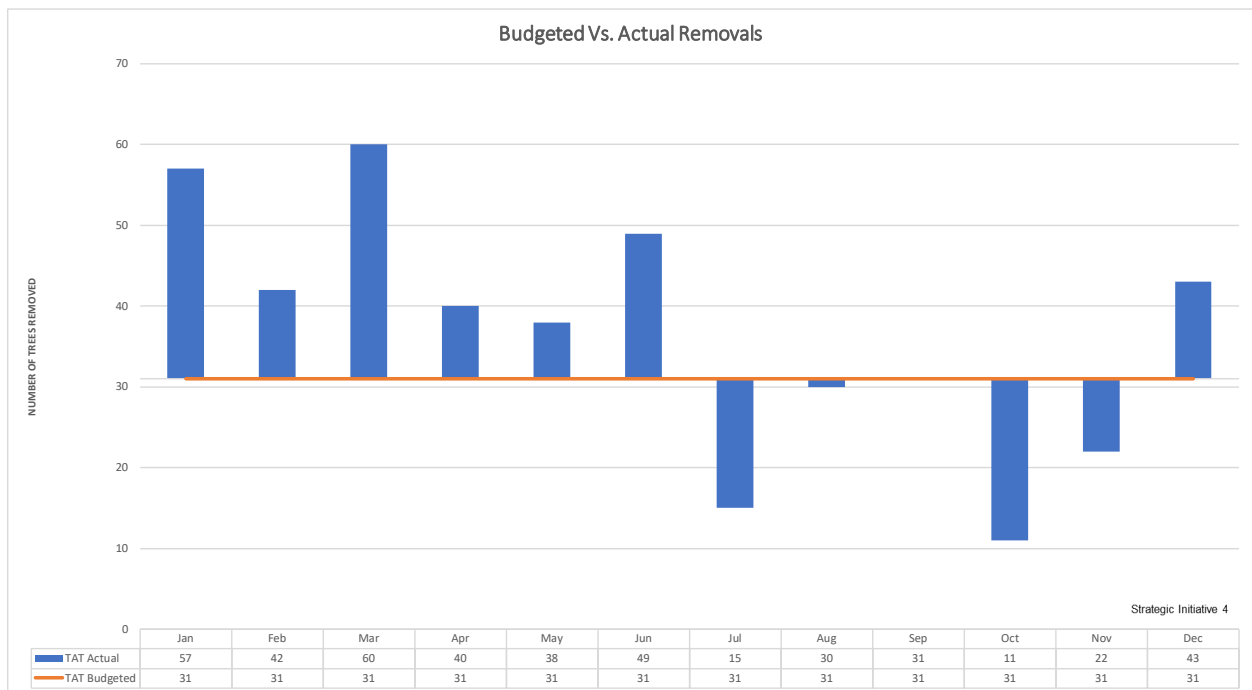
*Strategic Initiative 1 – Safety*



**Right-of-Way:**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

The Townsend crews finished all circuits out of Smithland in December.



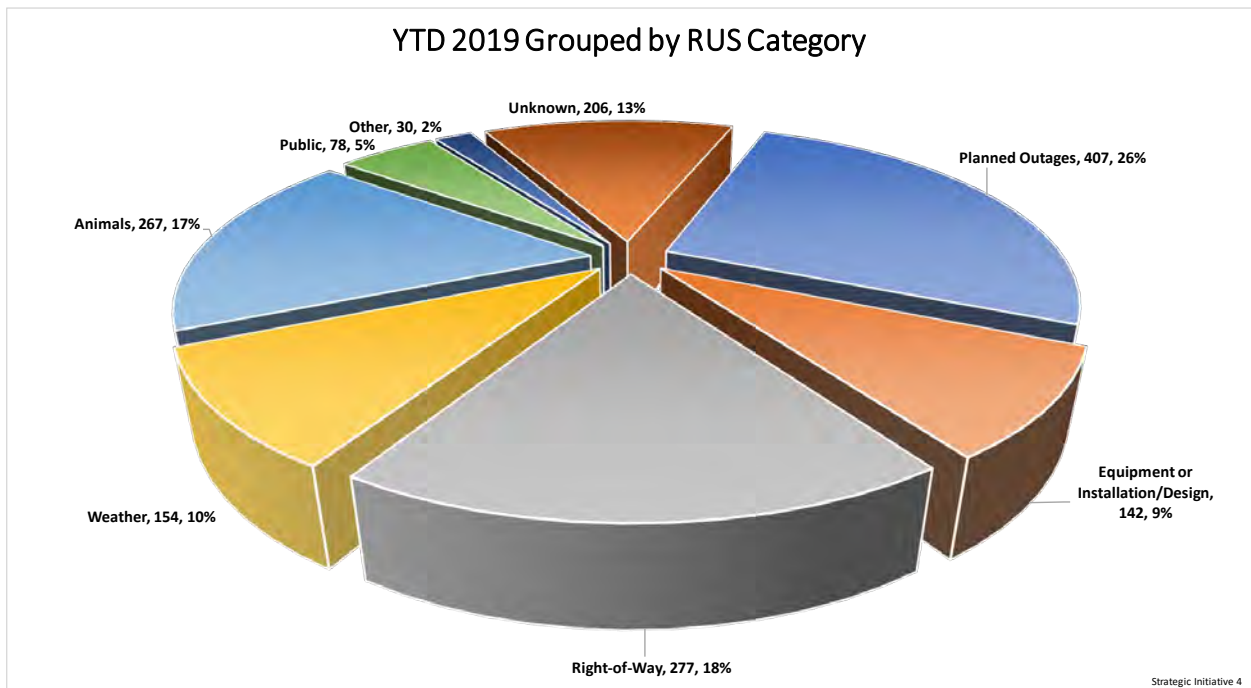
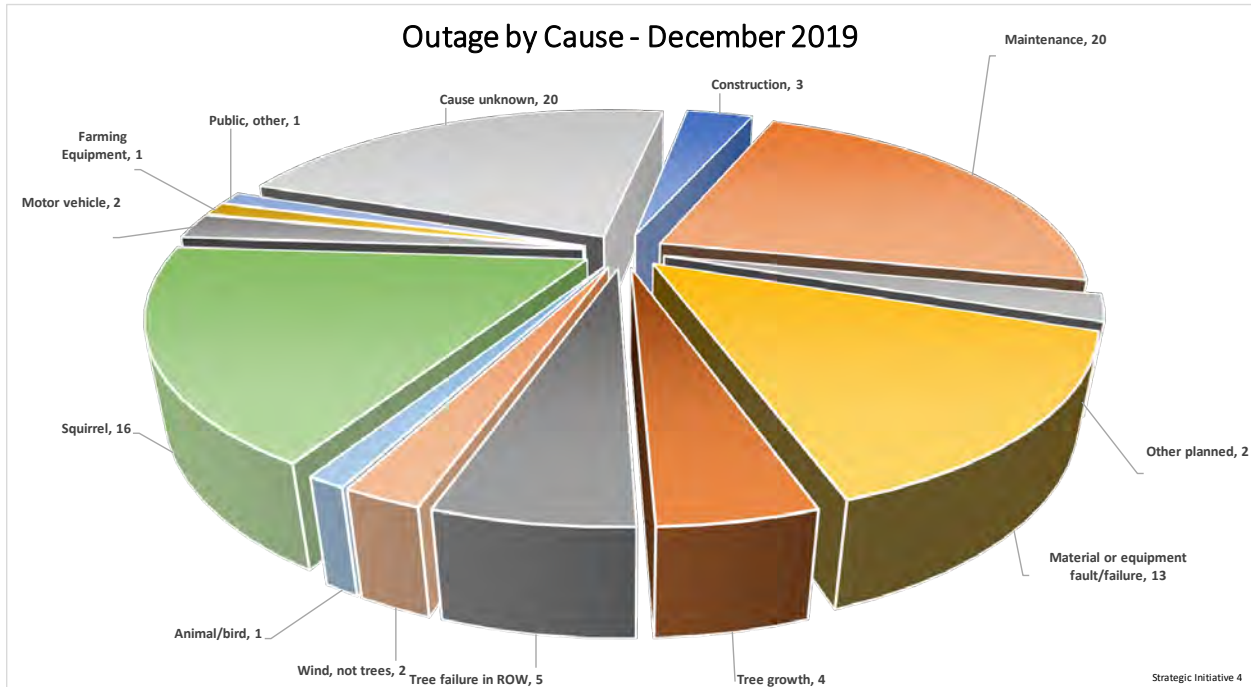
**Outages Indices:**

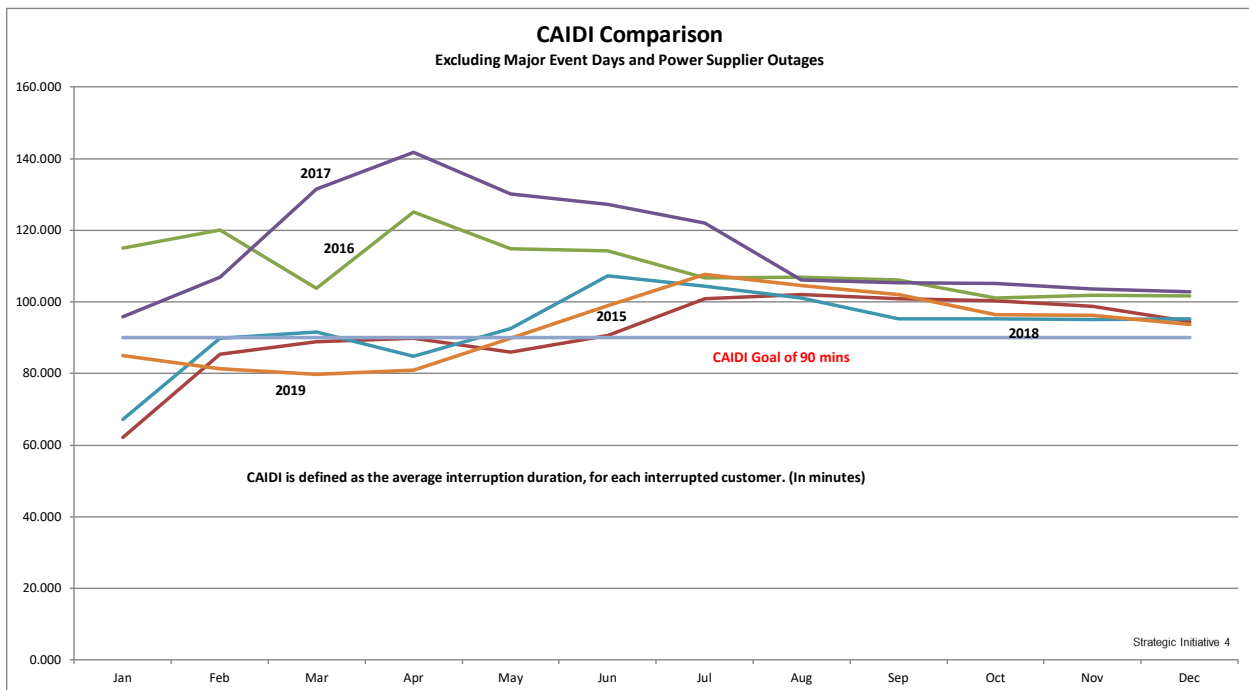
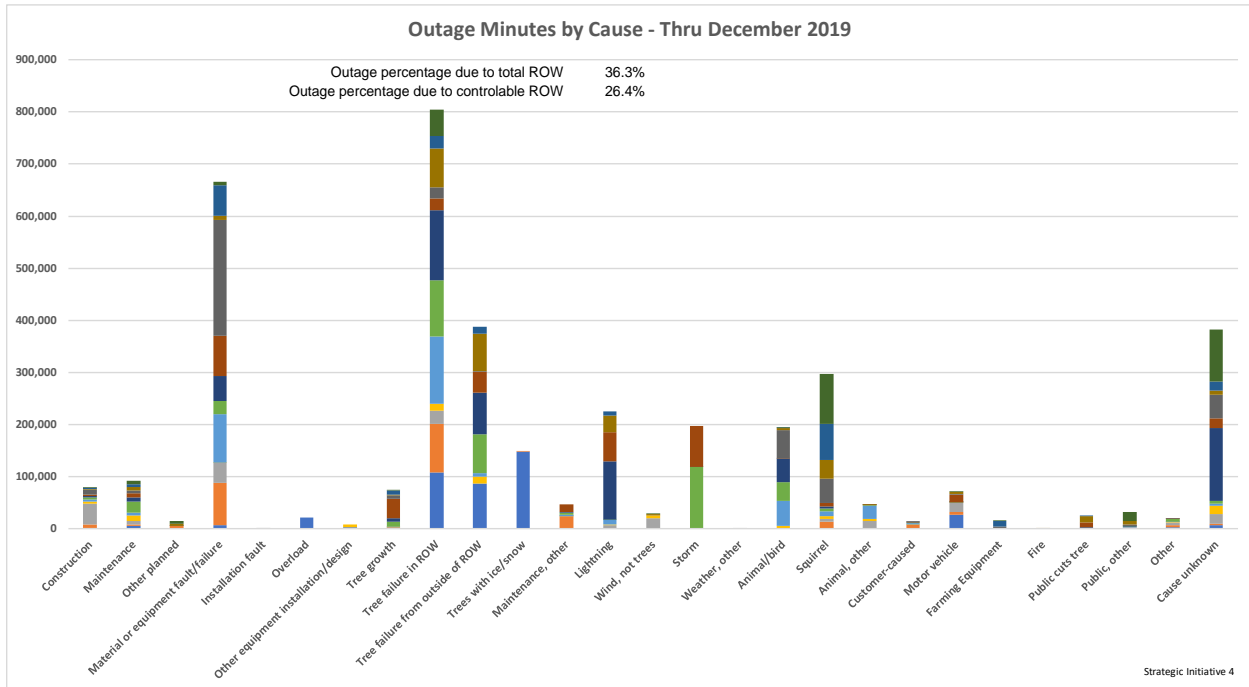
*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

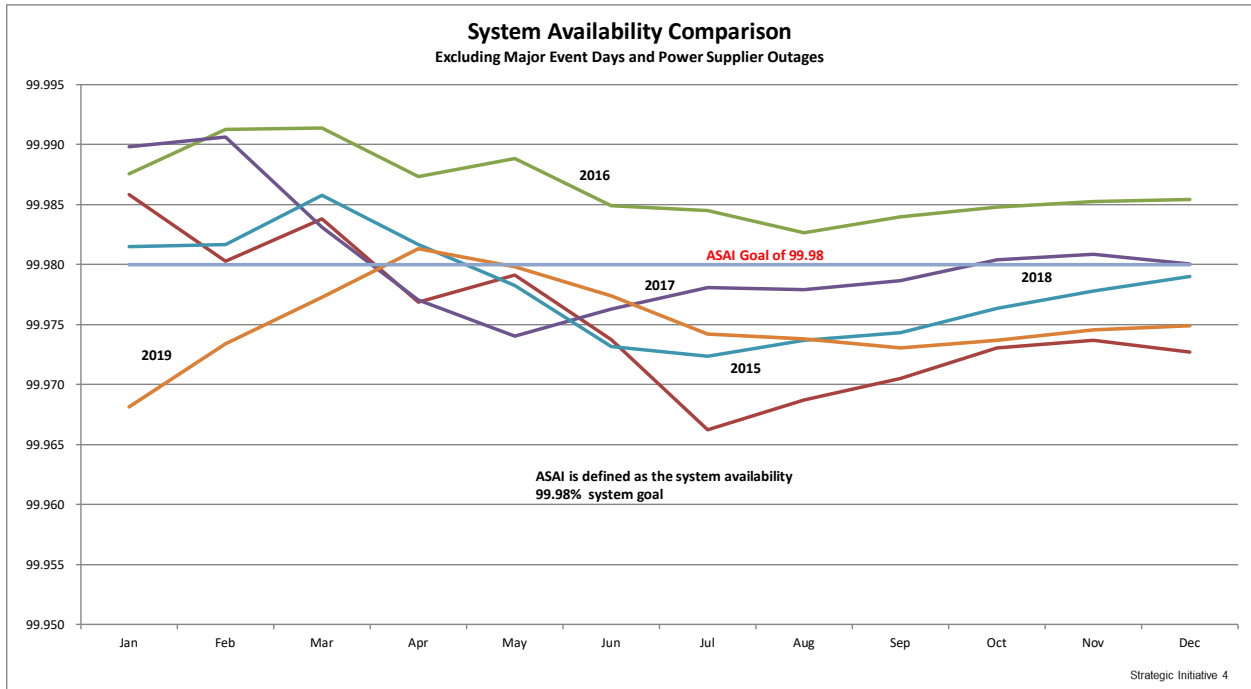
# of Outages – 90

Customers Affected – 4,117

Customer Hours Total – 4,751







## **ENGINEERING & OPERATIONS**

### **CAPITAL PROJECTS**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

For the month of January 2020, 156 work orders were closed at a total cost of \$423,130.29. Of those, 37 were categorized “New Construction” at an average cost of \$3,133.42.

### **ONGOING PROJECTS**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

#### **PSC**

- The PSC has undertaken a review of their Administrative Regulations and have made several proposed changes to:
  - 807 KAR 5:001 (Rules of Procedure)
  - 807 KAR 5:006 (General Rules)
  - 807 KAR 5:011 (Tariffs)
  - 2 new proposed regulations on pole attachments and general definitions
- More can be found at <https://psc.ky.gov/home/pscregulations>

#### **Substations:**

- Mobile substation has been installed in Kansas sub. Extended outage for rebuild is scheduled to begin on 3/25. That project is scheduled to be completed by the end of May.
- Replacement transformer for Freemont Sub has been sent out for bid

#### **DVR**

- DVR operated in January for an estimated savings of \$16,689.51

### **LINE INSPECTION**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

- Shawn with Quality Resources is working on New York, Michelle has moved on to Olivet Church Rd.

### **SYSTEM INFORMATION**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

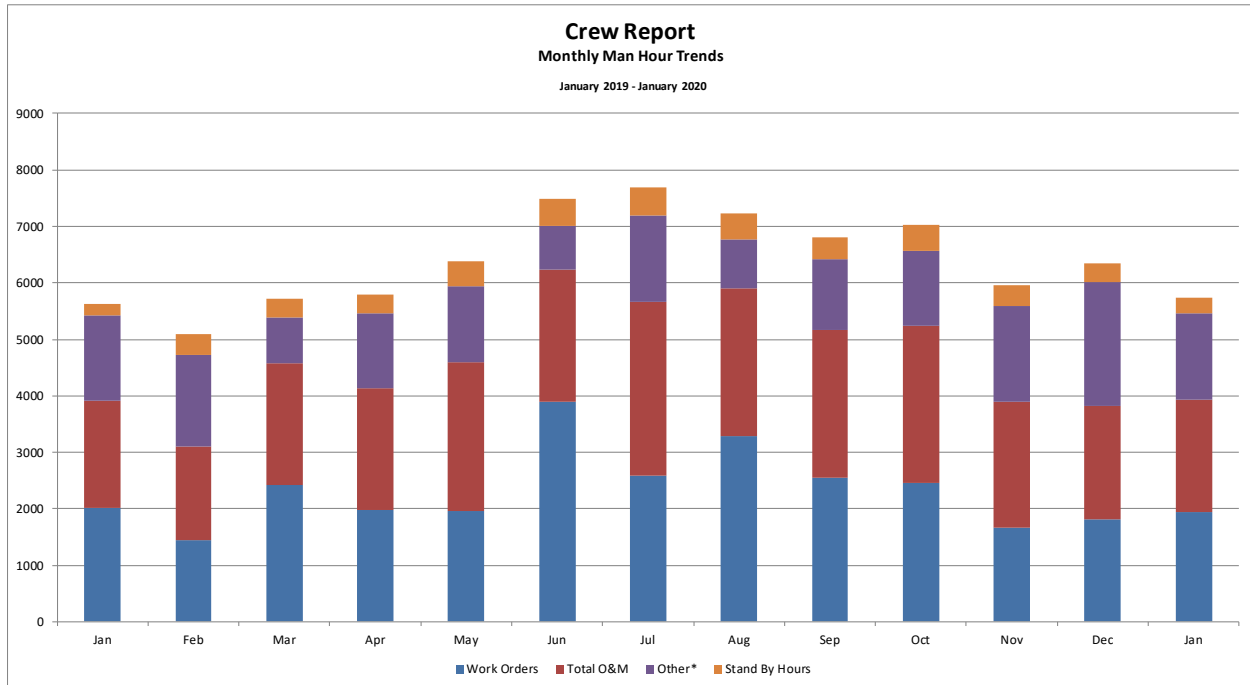
No substation experienced a new peak during the month of January, 2020.

The Totals for the Rural System were:

System Coincidental Peak (1/20 7:00 pm)..... 112,037 kW  
Total System Energy Usage ..... 56,746,047 kWh

**LINE OPERATIONS**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*



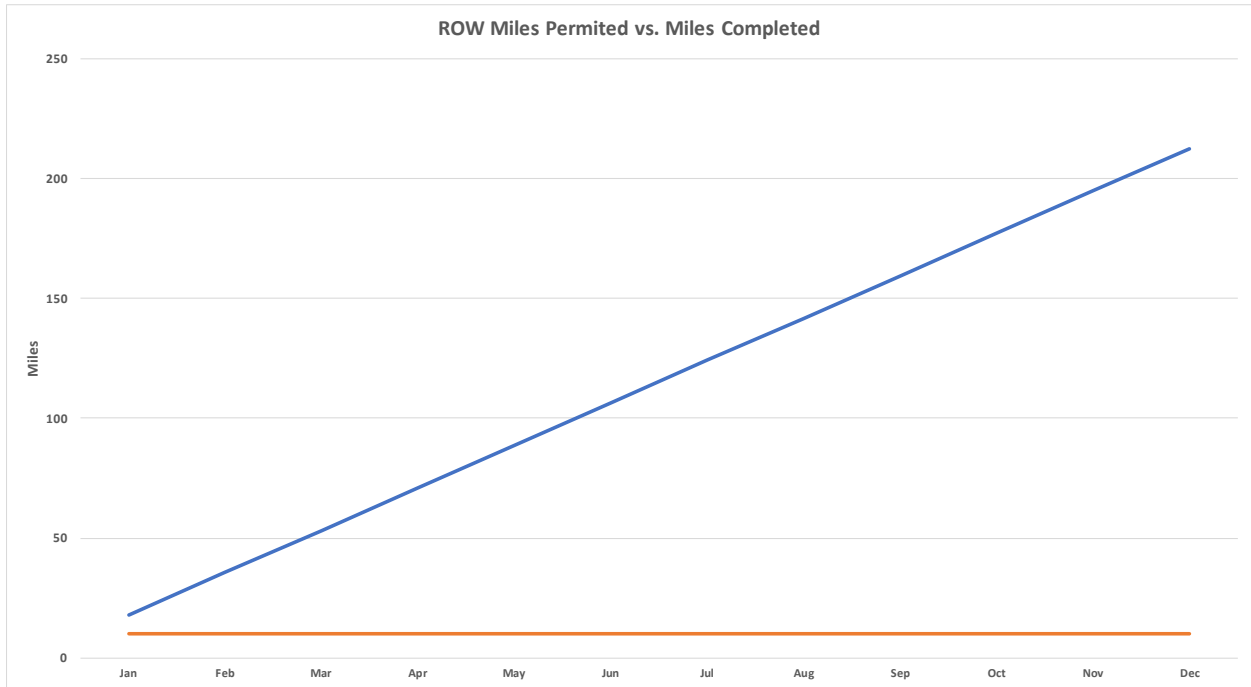
For the month of January our line crews spent 1,950.0 man hours (35.7%) on work orders, 1,146.0 man hours (21.0%) on operations, 844.0 man hours (15.4%) on maintenance items and 1,528.5 man hours (28.0%) on holidays, vacation, sick, training, safety and inclement weather.

The standby crew was called out 27 times during January, totaling 278.5 hours of actual overtime paid during the month.

**ROW**

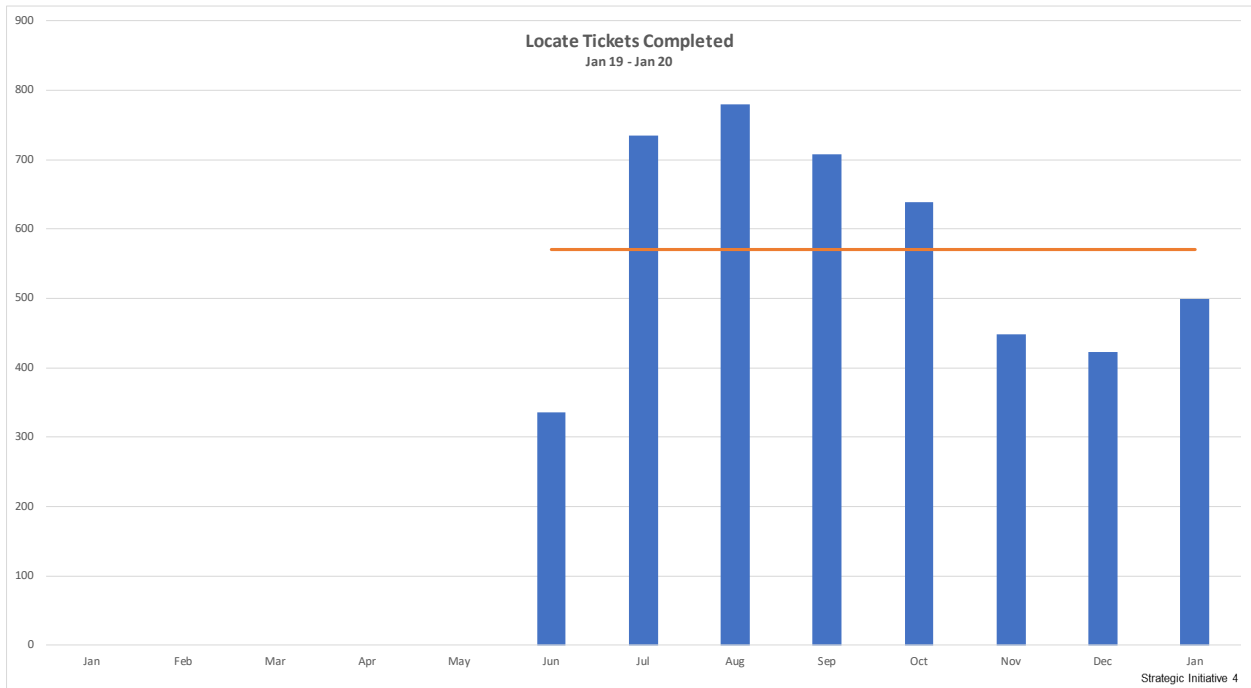
*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

2020 Right-of-Way Tracking													
Substation	Circuit	Total Miles	Miles Permitted	Contractor	Started	Miles			No. of Meters	% of Refusals	Resolved	Refusals left	No Response
						Complete	Tree Removals	Refusals					
Lovelandville	Blandville	15.3	15.3	Townsend	No		189	2	148	1.4%	2	0	6
Lovelandville	Cunningham	45.4	45.4	Townsend	Yes		380	13	578	2.2%	6	7	22
Lovelandville	Lovelandville	36.9	10	Townsend	No		50	0	603	0.0%		0	
Burna	Hampton	10.15	10.15	Townsend	Yes	10.15		5	103	4.9%	5	0	
Burna	Salem	39.51		Halter	No				406	0.0%		0	
Burna	Smithland	65.5	65.5	Halter	Yes		660	11	433	2.5%	9	2	6
		212.76	146.35			10.15	1279	31	2271	1.4%	22	9	34



**LOCATES**

*Strategic Initiative 1 – Safety*





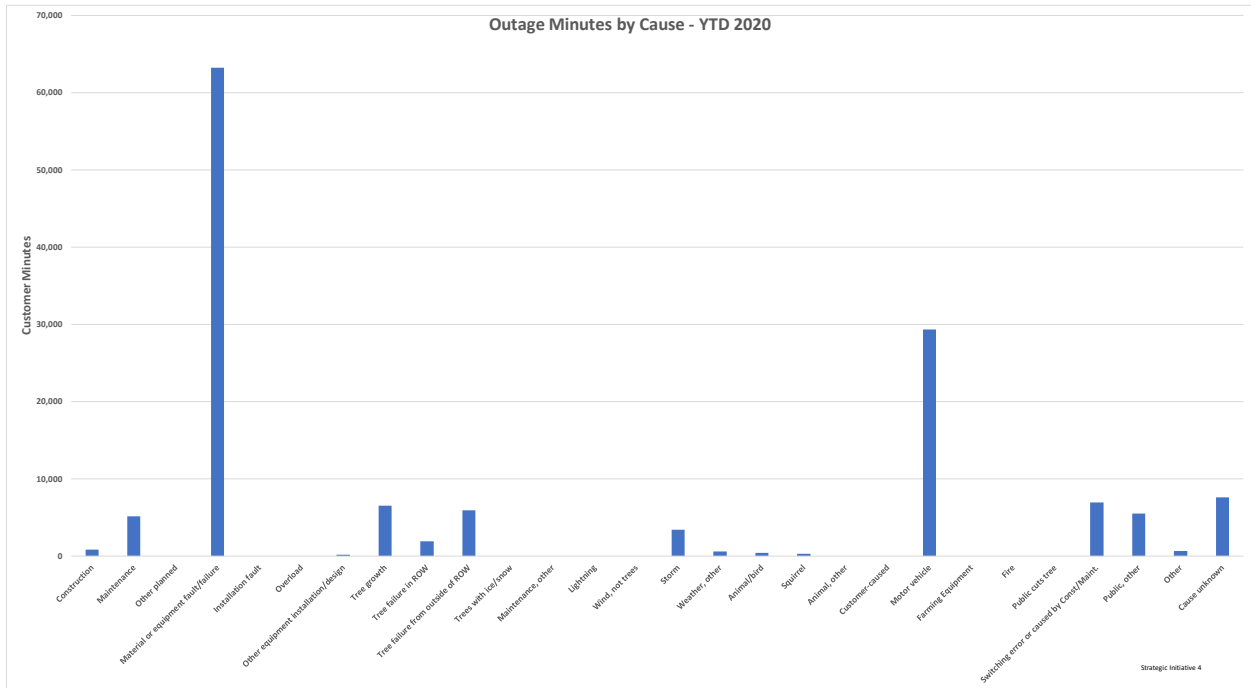
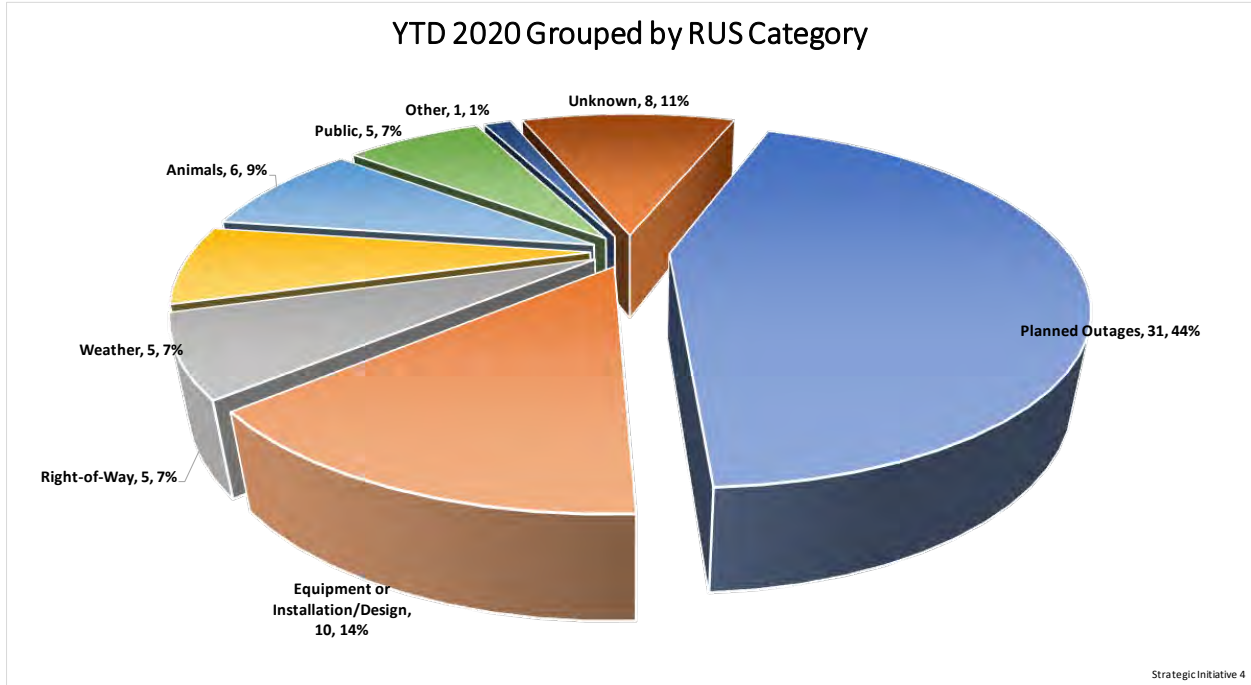
**Outages Indices:**

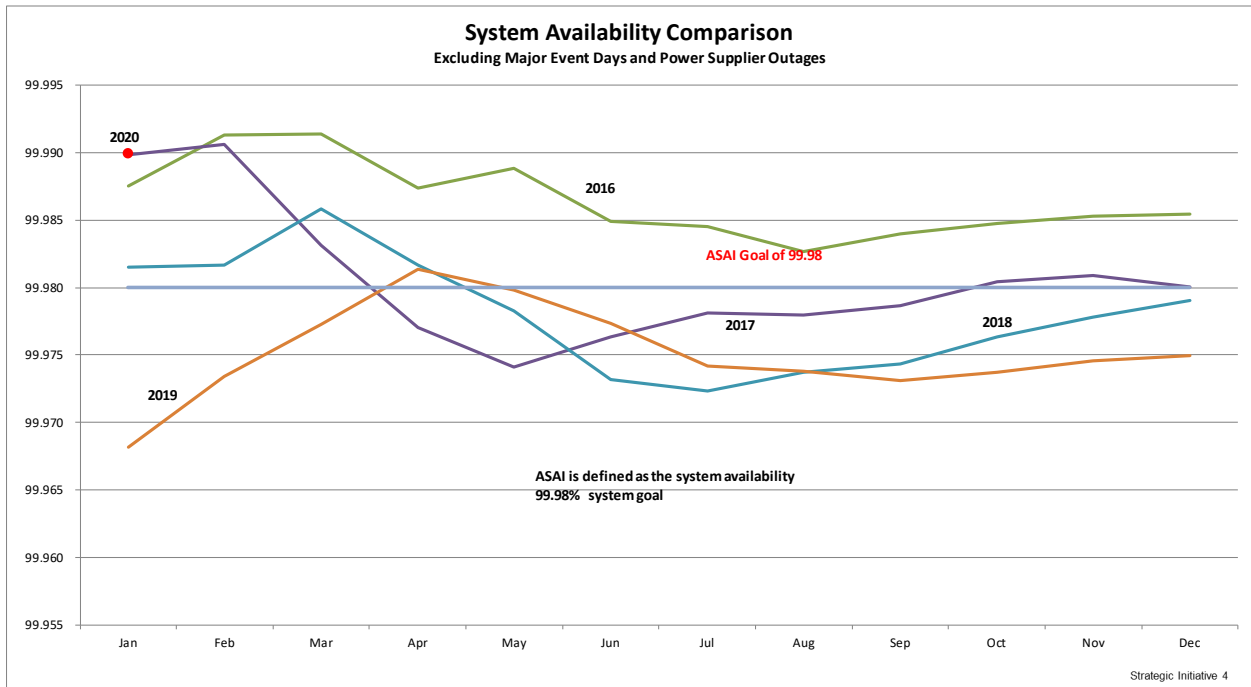
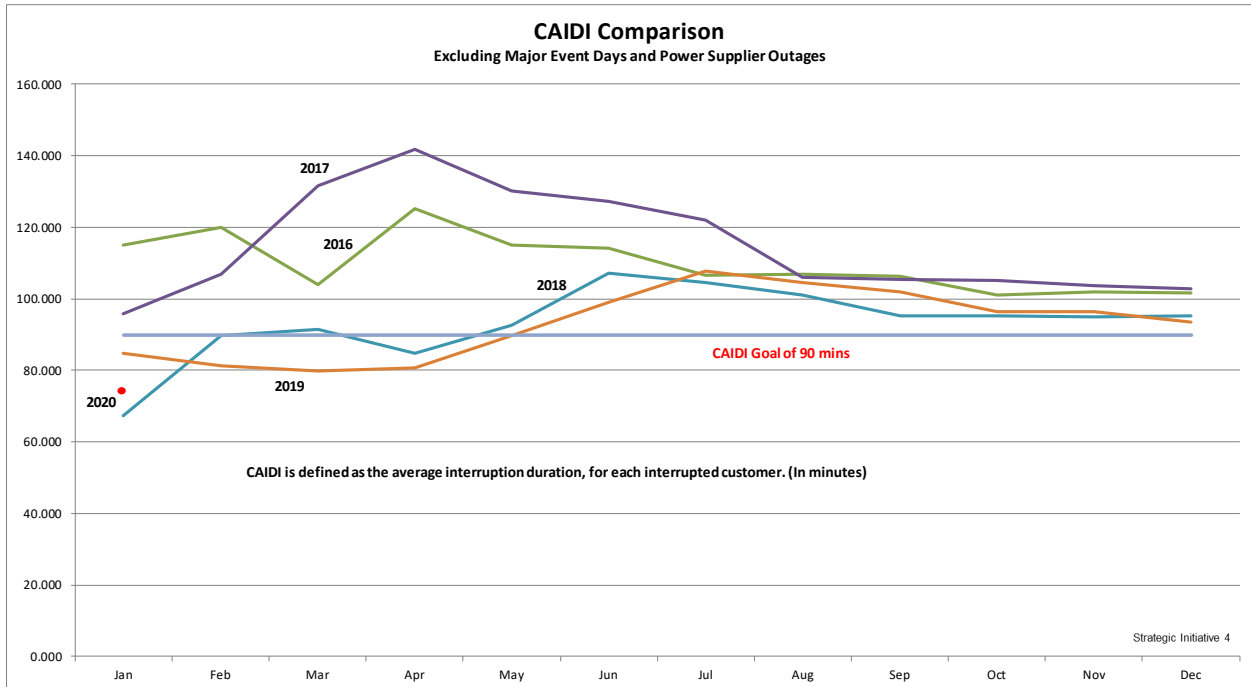
*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

# of Outages – 71

Customers Affected – 1,839

Customer Hours Total – 2,308





# Engineering & Operations

## CAPITAL PROJECTS

### *Strategic Initiative 4 – System Operations & Member Support Efficiencies*

For the month of February 2020, 141 work orders were closed at a total cost of \$871,791.26. Of those, 37 were categorized “New Construction” at an average cost of \$14,661.53.

Note: Four New Construction work orders were each over \$90,000. If those 4 outliers are eliminated, the average cost of the remaining 33 work orders is \$3,197.02.

16015681	\$118,024.33	Mobley Subdivision
19000125	\$110,985.89	Emeritus #0550
19009068	\$116,088.71	Hack Building Inc
19012386	\$ 91,876.19	Menards

## ONGOING PROJECTS

### *Strategic Initiative 4 – System Operations & Member Support Efficiencies*

#### **Substations:**

- Mobile substation has been installed in Kansas sub. Extended outage for rebuild is scheduled to has begun. Project is scheduled to be completed by the end of May.
- Replacement transformer for Freemont Sub has been awarded to Virginia Transformer.

#### **DVR**

- DVR operated in February for an estimated savings of \$16,961.

## SYSTEM INFORMATION

### *Strategic Initiative 4 – System Operations & Member Support Efficiencies*

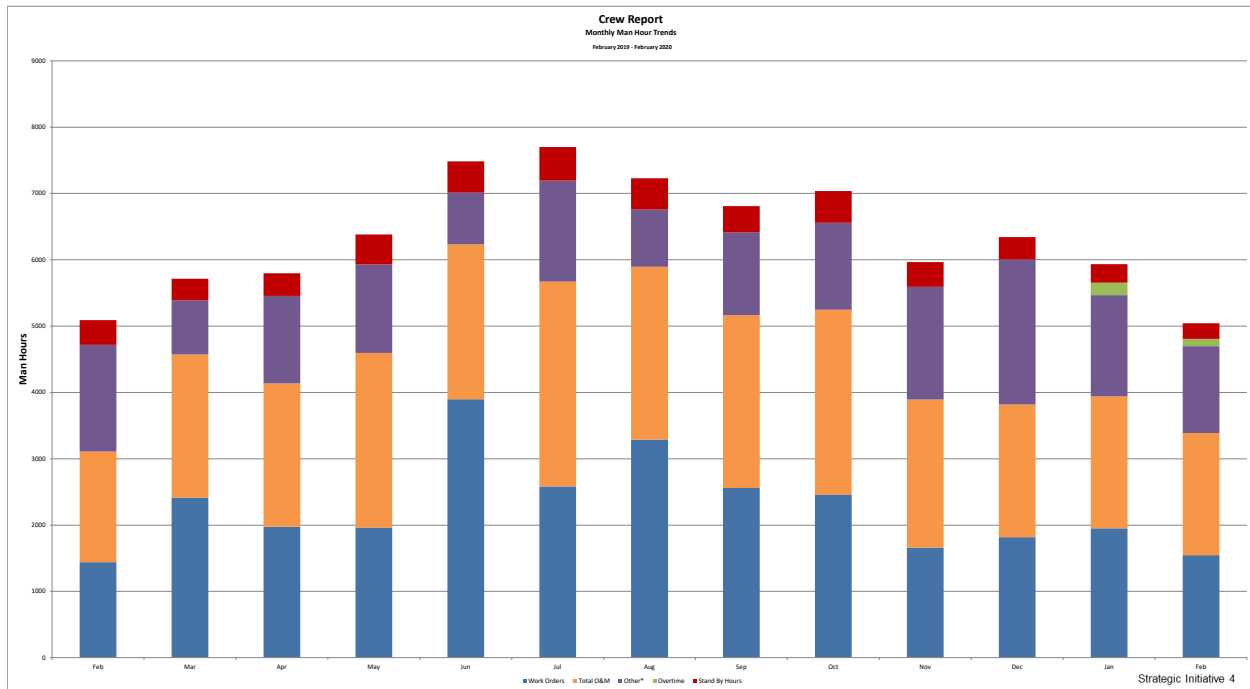
No substation experienced a new peak during the month of February 2020.

The Totals for the Rural System were:

System Coincidental Peak (2/14 7:30 am)..... 118,661 kW  
Total System Energy Usage ..... 52,692,558 kWh

**LINE OPERATIONS**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*



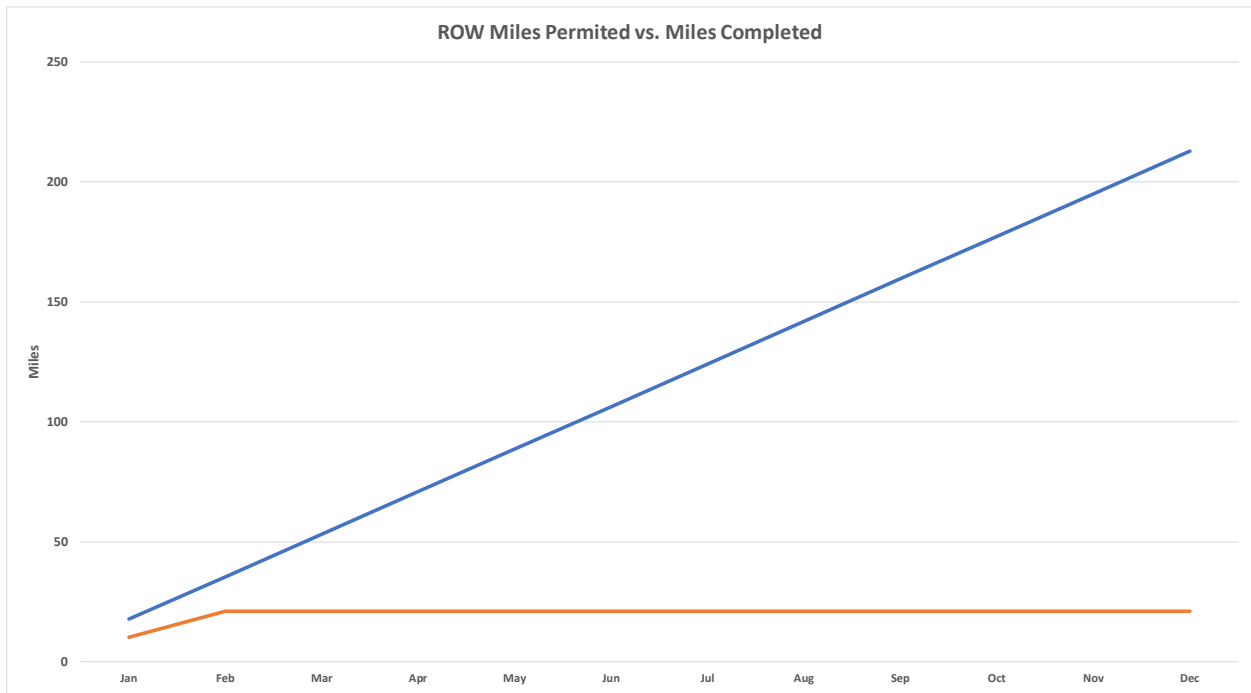
For the month of February, our line crews spent 1,548.5 man hours (33.0%) on work orders, 831.0 man hours (17.7%) on operations, 1,008.5 man hours (21.5%) on maintenance items and 1,308.5 man hours (27.9%) on holidays, vacation, sick, training, safety and inclement weather.

The standby crew was called out 32 times during February, totaling 235.5 hours of actual overtime paid during the month.

**ROW**

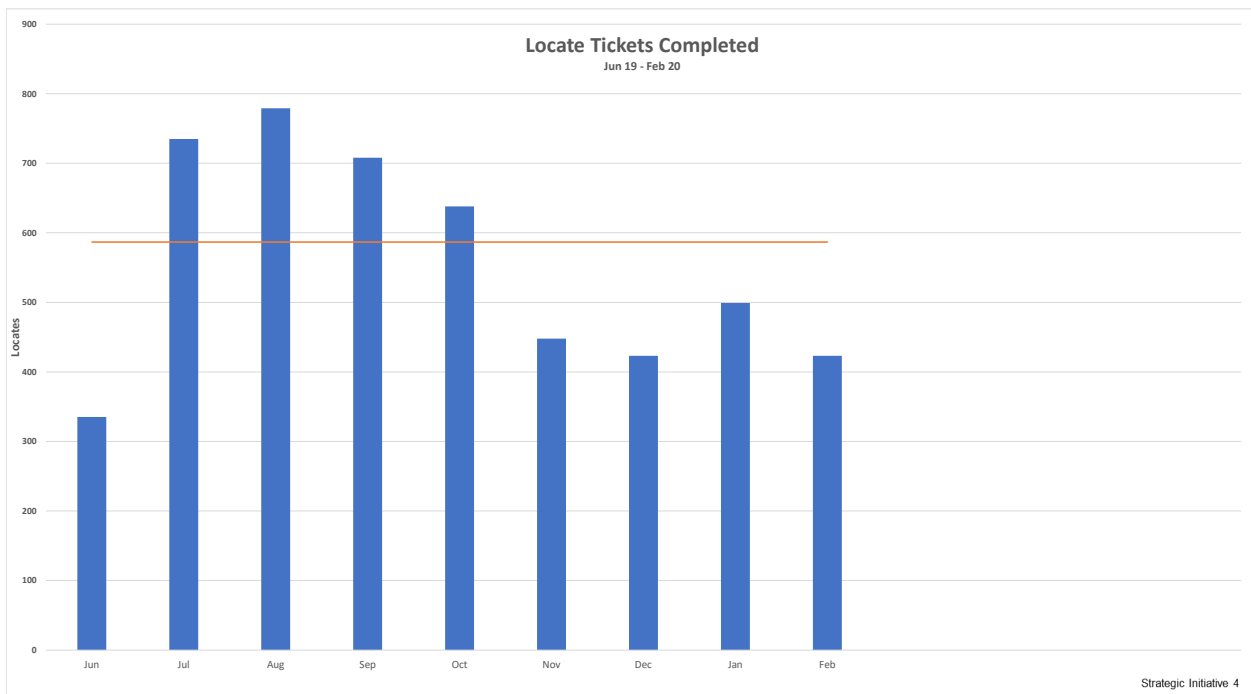
*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

2020 Right-of-Way Tracking													
Substation	Circuit	Total Miles	Miles Permitted	Contractor	Started	Miles Complete	Tree Removals	Refusals	No. of Meters	% of Refusals	Resolved	Refusals left	No Response
Lovelandville	Blandville	15.3	15.3	Townsend	No		189	2	148	1.4%	2	0	2
Lovelandville	Cunningham	45.4	45.4	Townsend	Yes	11	380	13	578	2.2%	6	7	1
Lovelandville	Lovelandville	36.9	36.9	Townsend	No		50	5	603	0.8%		5	24
Burna	Hampton	10.15	10.15	Townsend	Yes	10.15		5	103	4.9%	5	0	
Burna	Salem	39.51	19.76	Halter	No		219		406	0.0%		0	
Burna	Smithland	65.5	65.5	Halter	No		660	11	433	2.5%	9	2	2
		212.76	193.005			21.15	1498	36	2271	1.6%	22	14	29



**LOCATES**

*Strategic Initiative 1 – Safety*



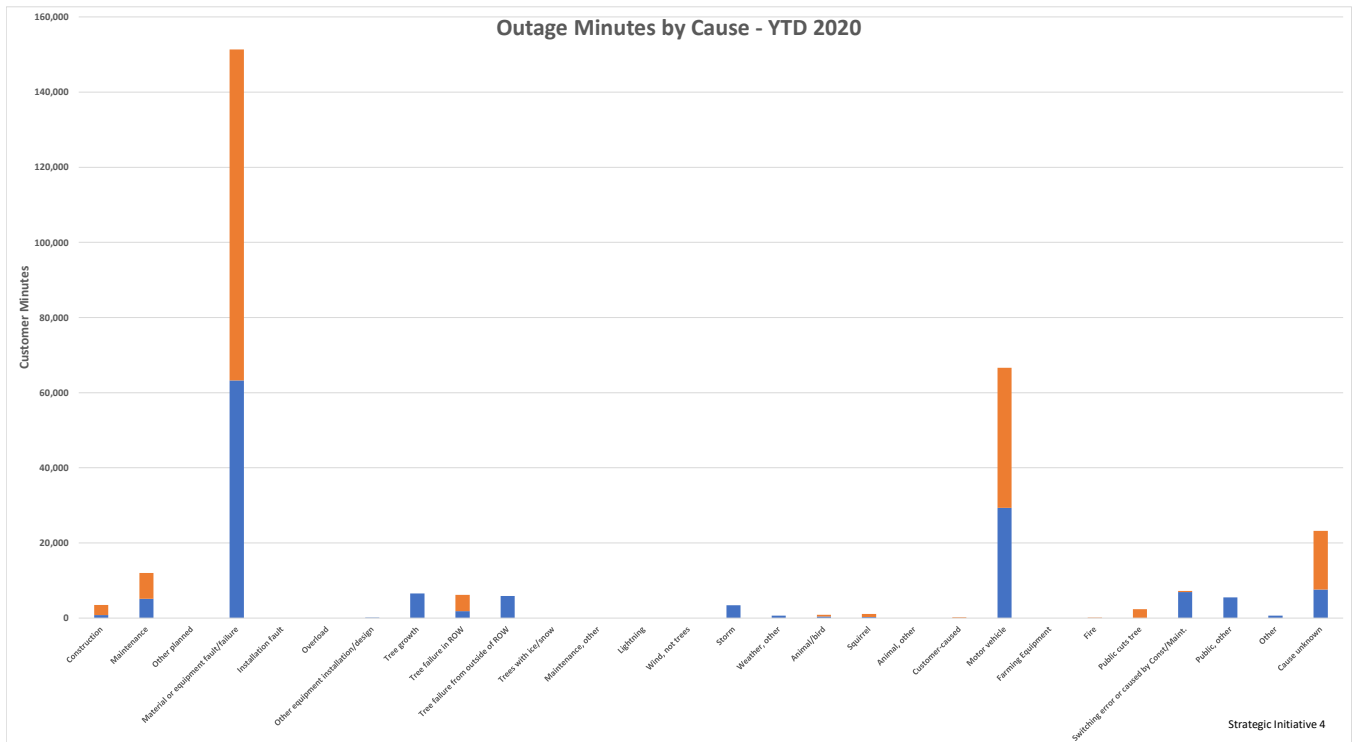
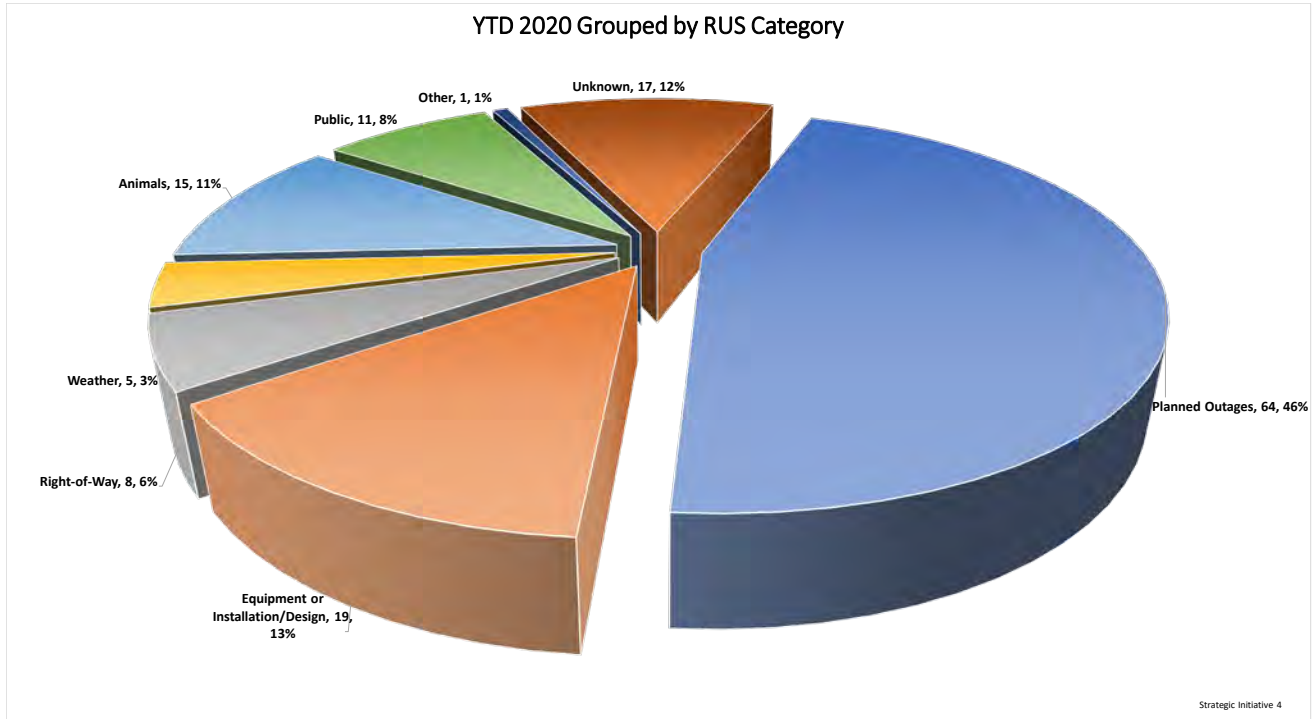
### Outages Indices:

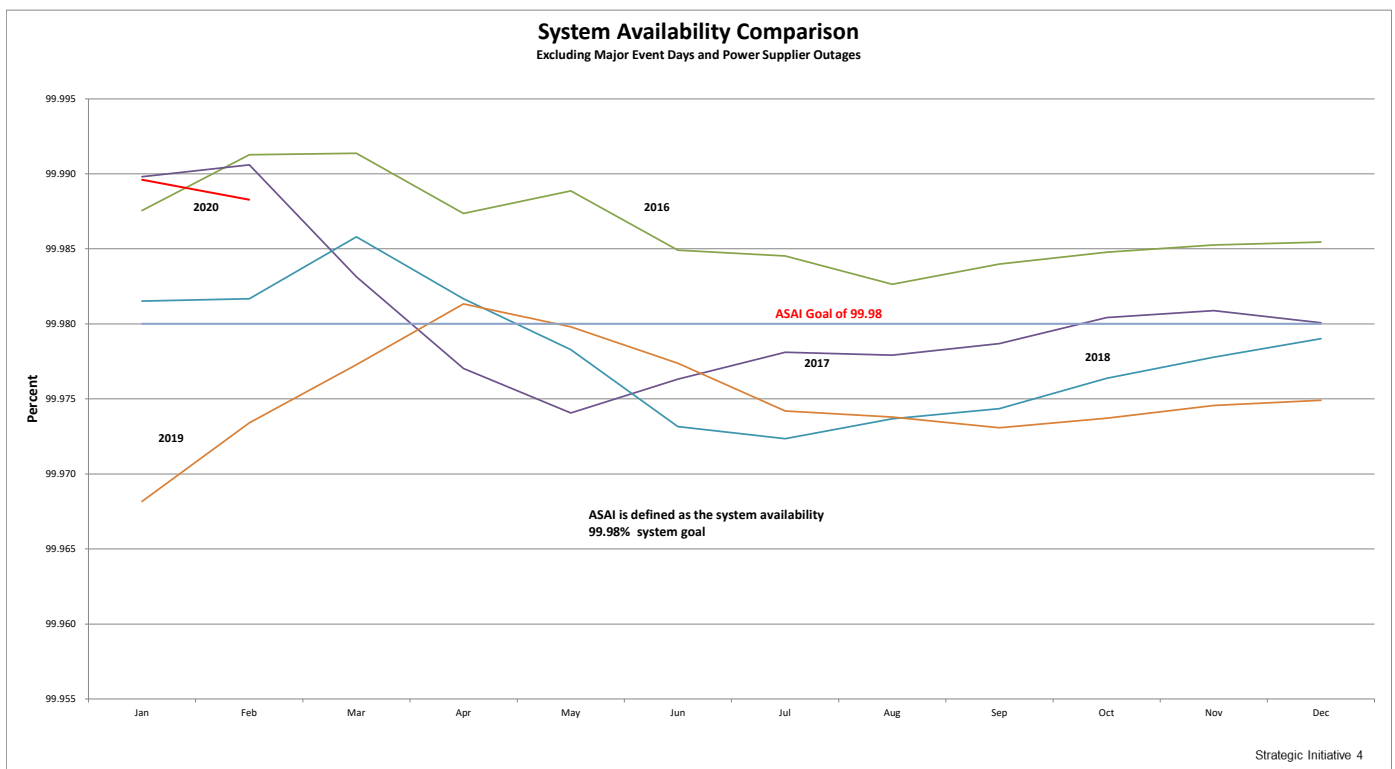
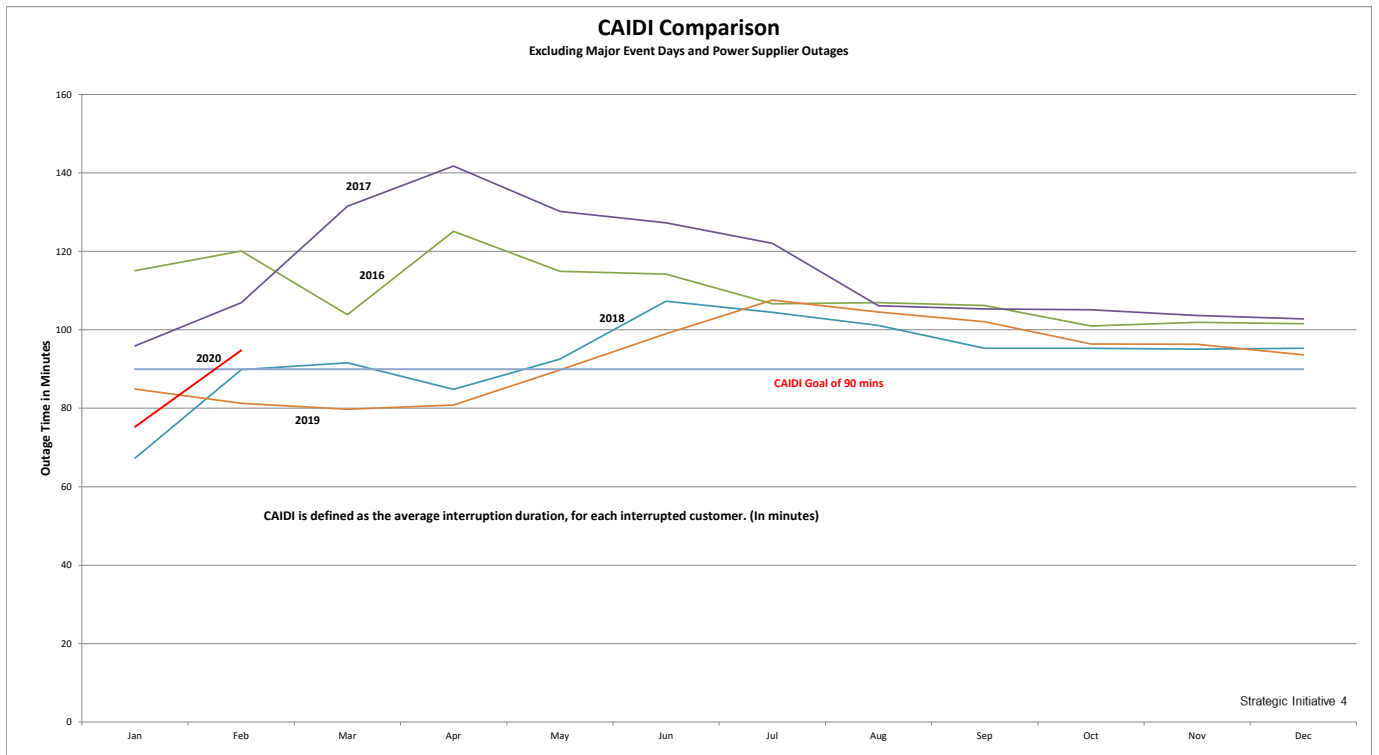
#### Strategic Initiative 4 – System Operations & Member Support Efficiencies

# of Outages – 69

Customers Affected – 1,300

Customer Hours Total – 2,650





# Engineering & Operations

## **CAPITAL PROJECTS**

### *Strategic Initiative 4 – System Operations & Member Support Efficiencies*

For the month of March 2020, 138 work orders were closed at a total cost of \$576,277.56. Of those, 40 were categorized “New Construction” at an average cost of \$5,714.35.

## **ONGOING PROJECTS**

### *Strategic Initiative 4 – System Operations & Member Support Efficiencies*

#### **Substations:**

- Kansas substation project is scheduled to be completed by the middle of June
- A second transformer has been moved into Freemont substation temporarily until the new transformer is installed which will be Spring of 2021. The second transformer is the one from Kansas. The additional unit will allow E&O to maintain all operational efficiencies.

#### **CWP**

- E&O is currently working with KYTC on permitting the Ledbetter Bridge crossing and distribution lines and have submitted a crossing permit with Omega Rail for the P&L line under the bridge.

#### **DVR**

- DVR did not operate in March.

#### **Underground Locating:**

- USIC has been contracted to preform underground locates for JPEC and we have a scheduled go live date of 5/26. All KY 811 locates will be automatically routed to USIC. JPEC will have access to a web portal to see what is being called in and their performance.

## **SYSTEM INFORMATION**

### *Strategic Initiative 4 – System Operations & Member Support Efficiencies*

No substation experienced a new peak during the month of March 2020.

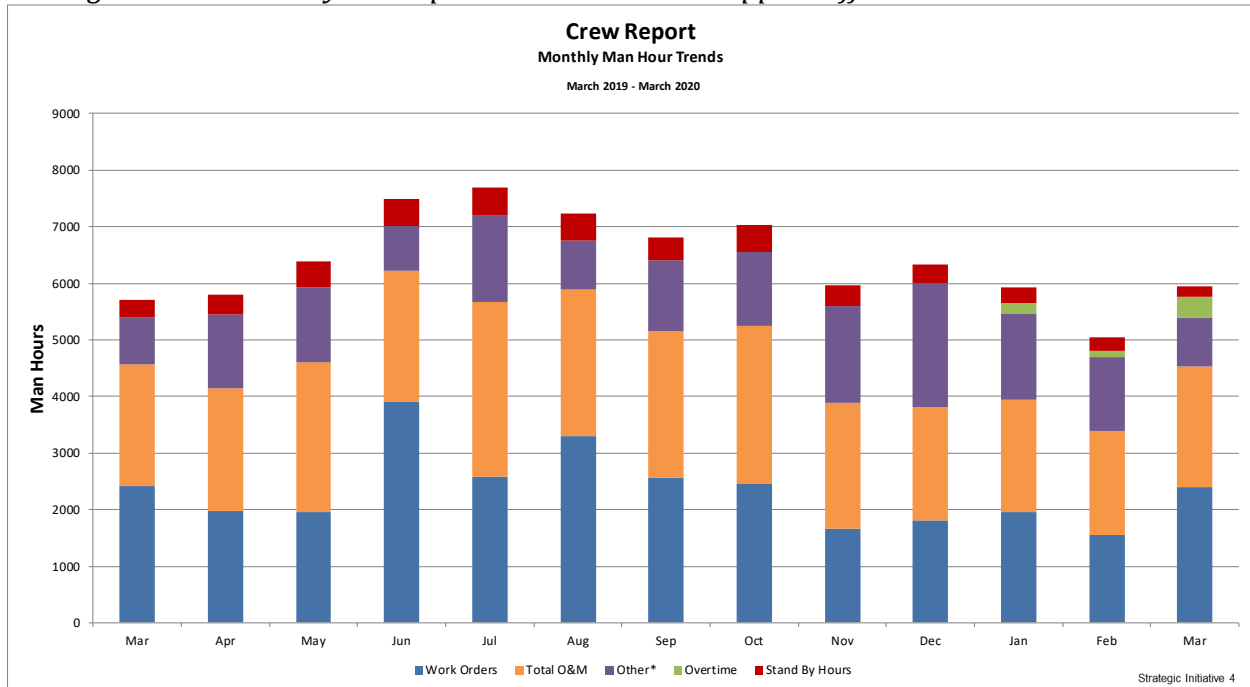
The Totals for the Rural System were:

System Coincidental Peak (3/7 7:00 am).....	80,737 kW
Total System Energy Usage .....	44,363,533 kWh



**LINE OPERATIONS**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*



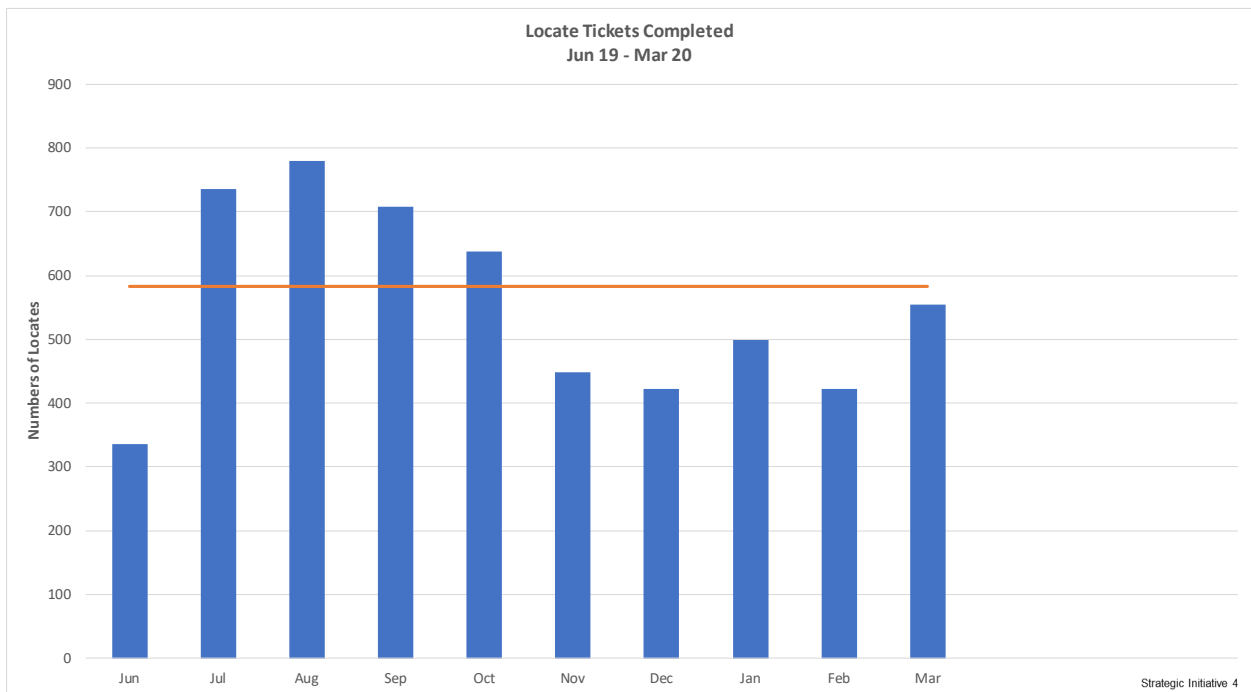
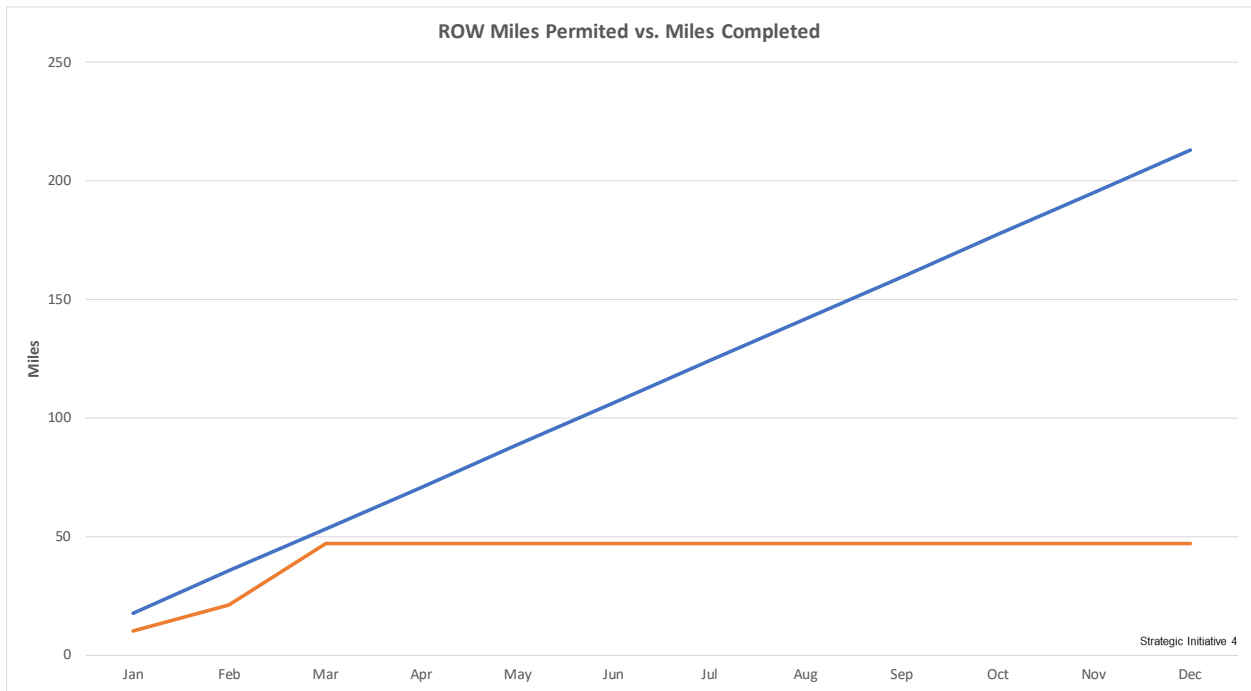
For the month of March, our line crews spent 2,399.0 man hours (44.4%) on work orders, 973.5 man hours (18.0%) on operations, 1,156.0 man hours (21.4%) on maintenance items and 872.0 man hours (16.1%) on holidays, vacation, sick, training, safety and inclement weather.

The standby crew was called out 38 times during March, totaling 181 hours of actual overtime paid during the month.

**ROW**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

Substation	Circuit	Total Miles	Miles Permitted	Contractor	Started	Miles Complete	Tree Removals	Refusals	No. of Meters	% of Refusals	Resolved	Refusals left	No Response
Lovellaceville	Blandville	15.3	15.3	Townsend	No		189	2	148	1.4%	2	0	6
Lovellaceville	Cunningham	45.4	45.4	Townsend	Yes	22	380	13	578	2.2%	6	7	22
Lovellaceville	Lovellaceville	36.9	36.9	Townsend	No		50	5	603	0.8%		0	0
Burna	Hampton	10.15	10.15	Townsend	Yes	10.15		5	103	4.9%	5	0	
Burna	Salem	39.51	39.51	Halter	No		219		406	0.0%		0	
Burna	Smithland	65.5	65.5	Halter	No	15	660	11	433	2.5%	9	2	2
		212.76	212.76			47.15	1498	36	2271	1.6%	22	9	30



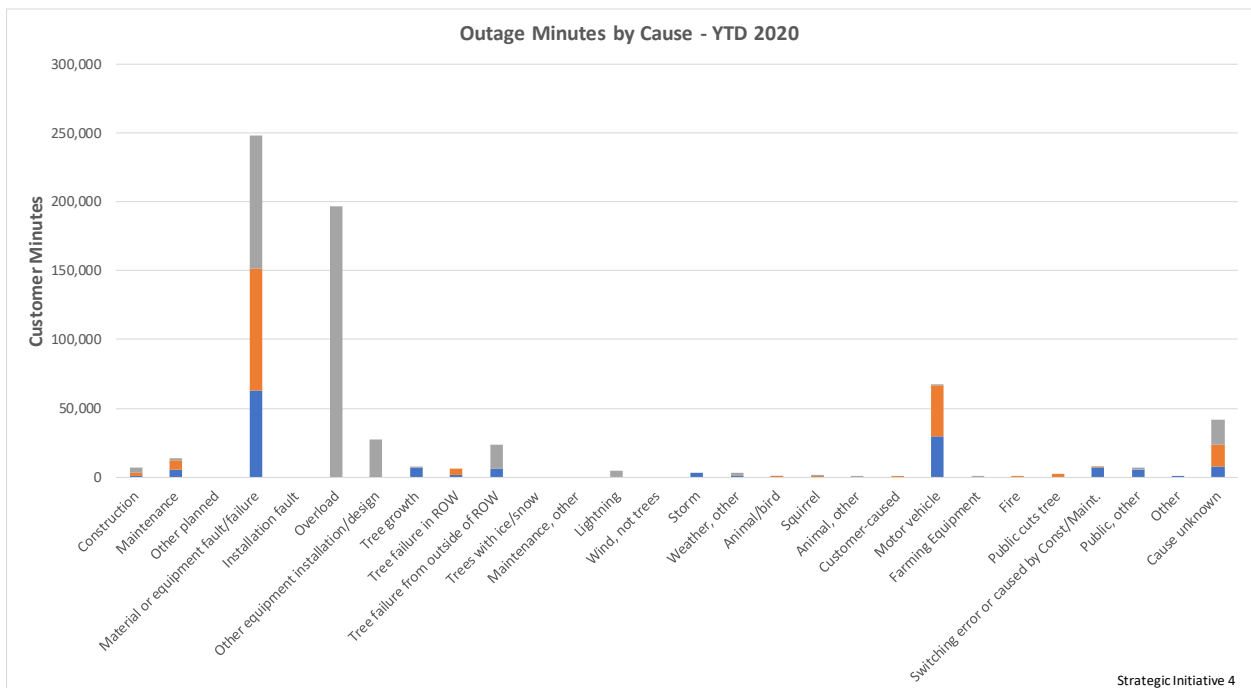
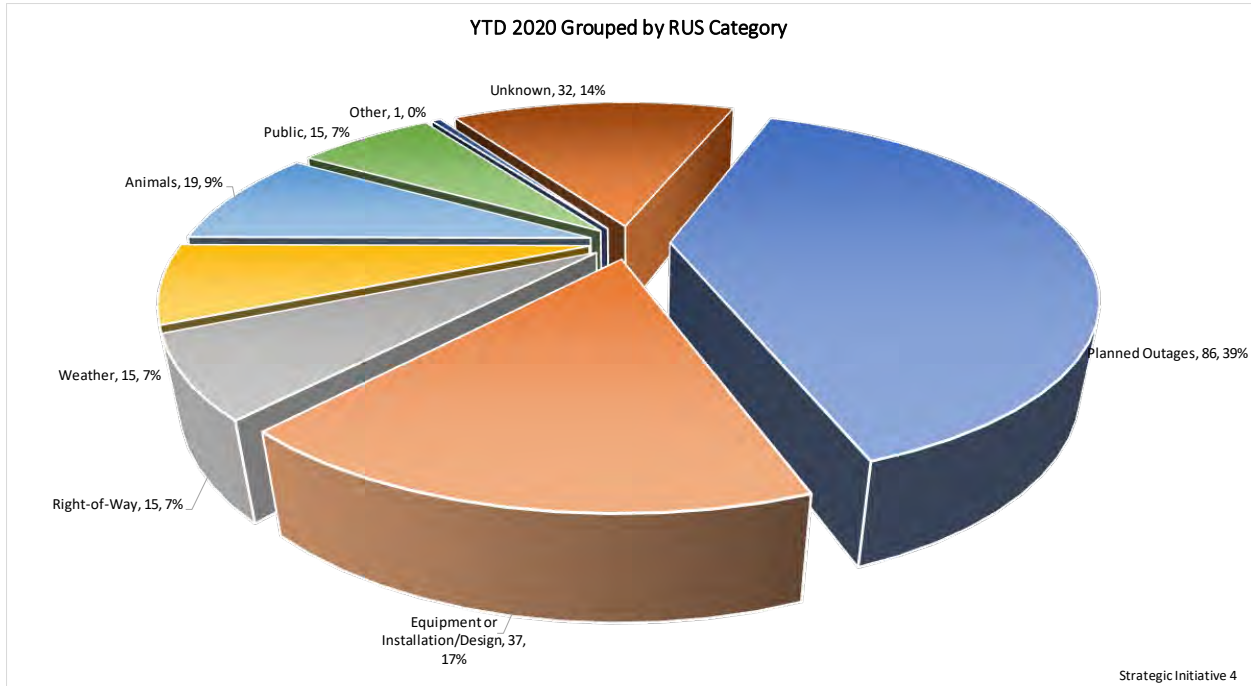
**Outages Indices:**

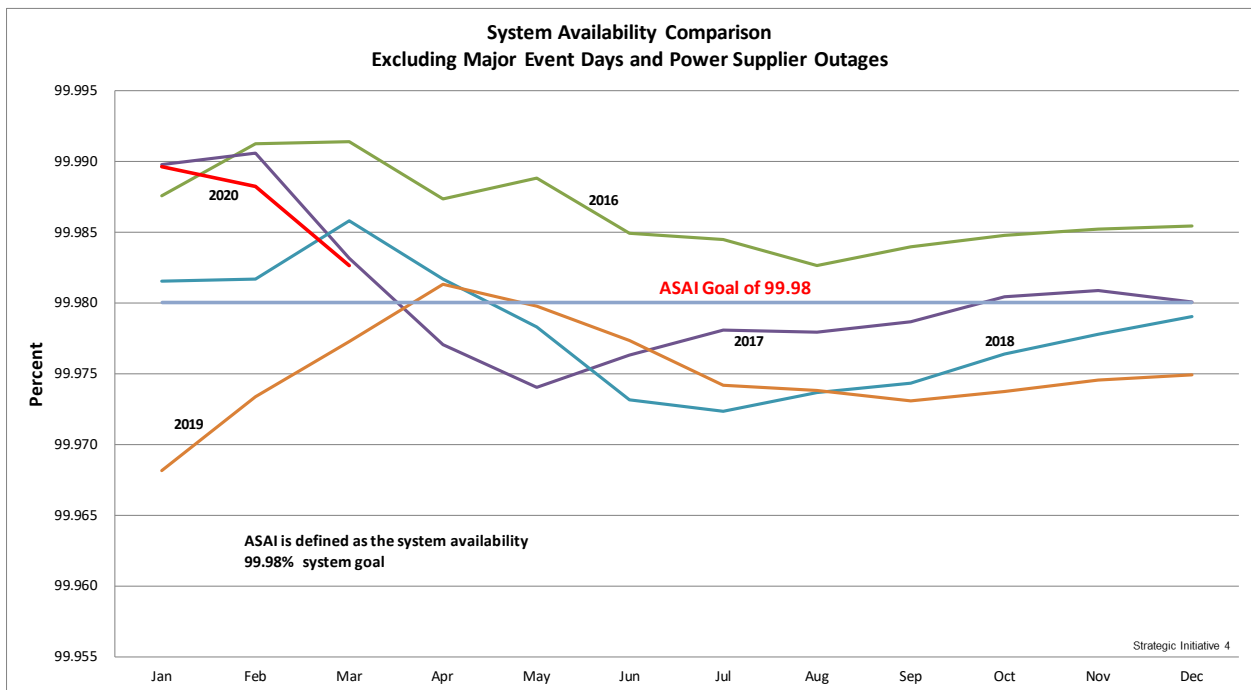
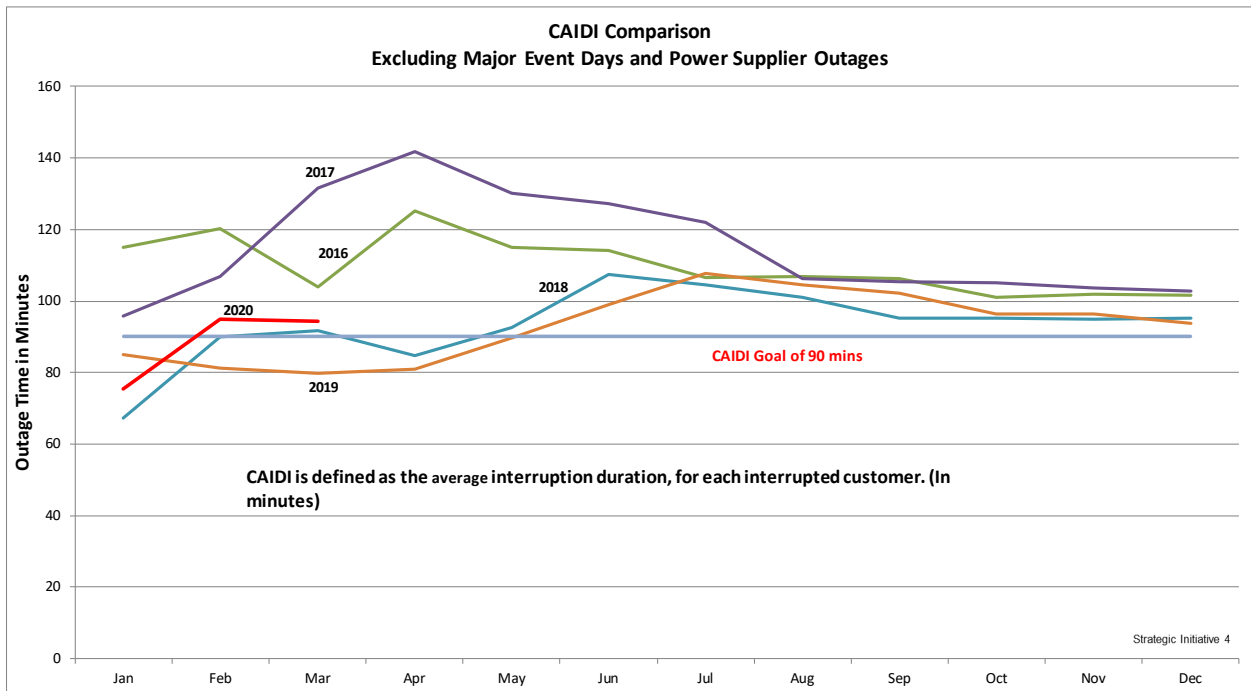
*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

# of Outages – 80

Customers Affected – 4,002

Customer Hours Total – 6,253





# Engineering & Operations

## **CAPITAL PROJECTS**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

For the month of April 2020, 168 work orders were closed at a total cost of \$438,364.10. Of those, 39 were categorized “New Construction” at an average cost of \$3,946.85.

## **ONGOING PROJECTS**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

### **Substations:**

- Kansas substation upgrades are scheduled to be completed by 6/19 and the station back to be normal operations
- Repairs to the Vulcan and Grand Rivers substation are scheduled to be completed by 6/19 and the station be back to normal operations

### **CWP**

- E&O is currently working with KYTC on permitting the Ledbetter Bridge crossing and distribution lines and have submitted a crossing permit with Omega Rail for the P&L line under the bridge.

### **DVR**

- Estimated savings for March were \$7,245.18.

### **Underground Locating:**

- JPEC has been monitoring USIC’s performance and for the most part, they have preformed well. We have discussed a couple of issues and have made adjustments by providing more details in mapping information.

## **SYSTEM INFORMATION**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

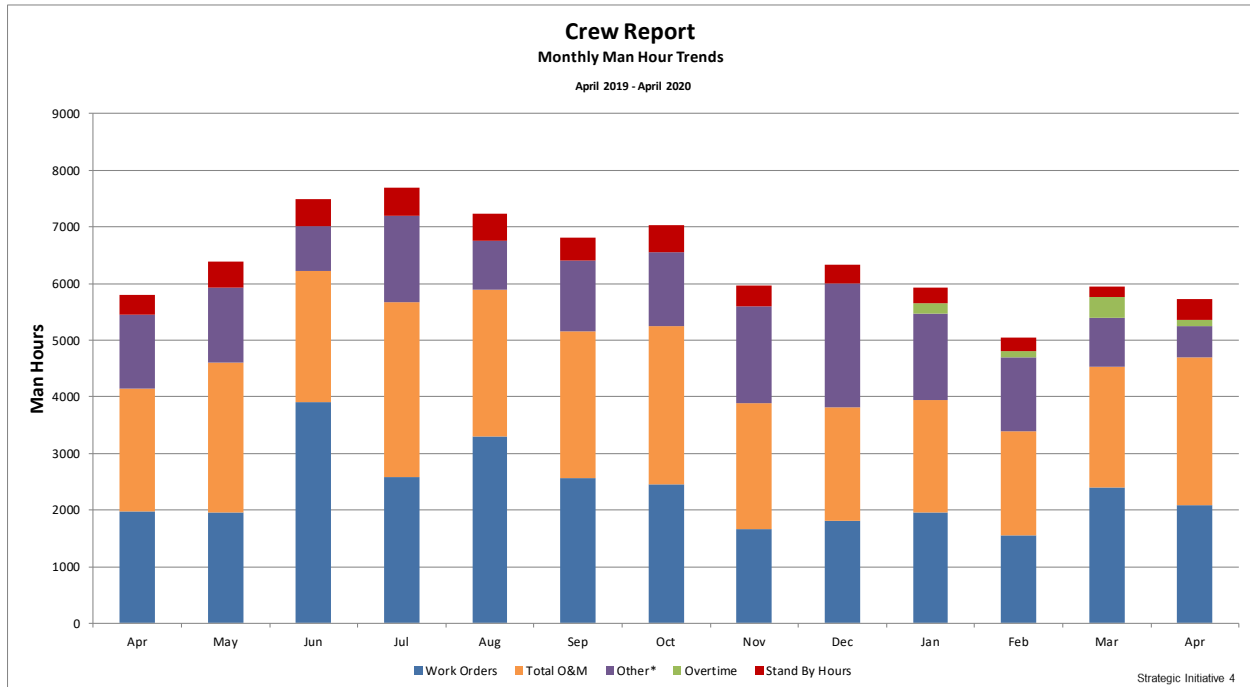
No substation experienced a new peak during the month of April 2020.

The Totals for the Rural System were:

Rural System Peak .....	80,082 kW
Total Rural System Energy Throughput.....	37,977,787 kWh

**LINE OPERATIONS**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*



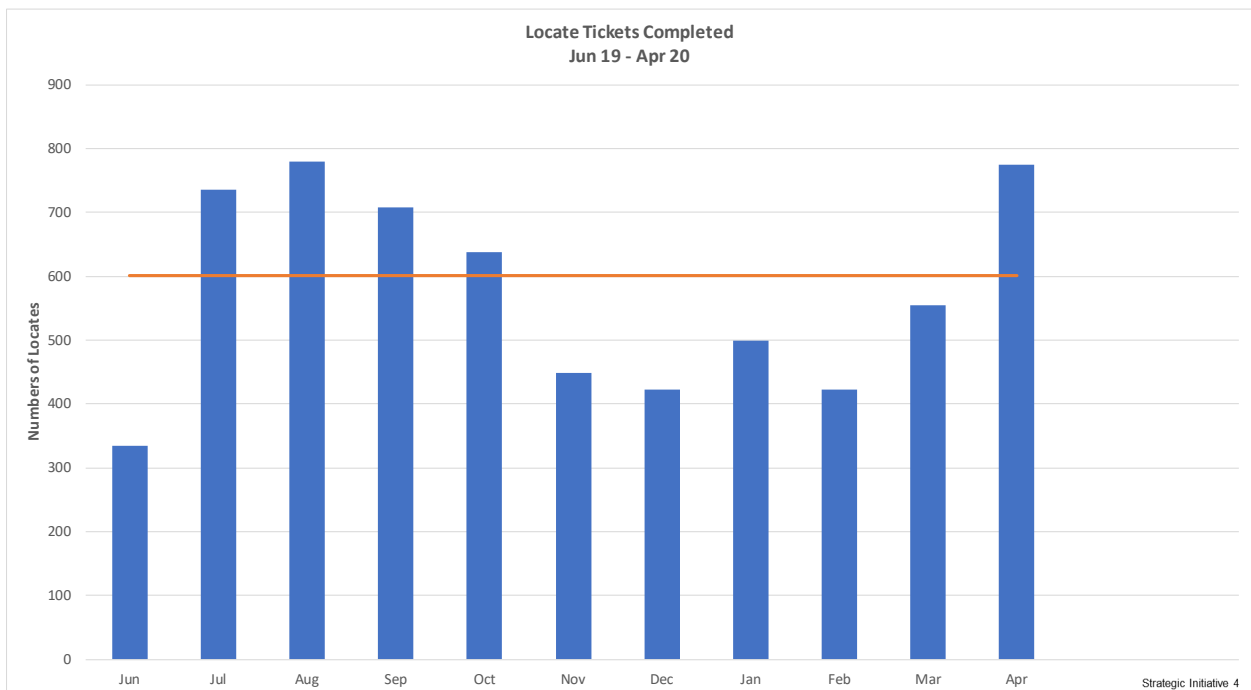
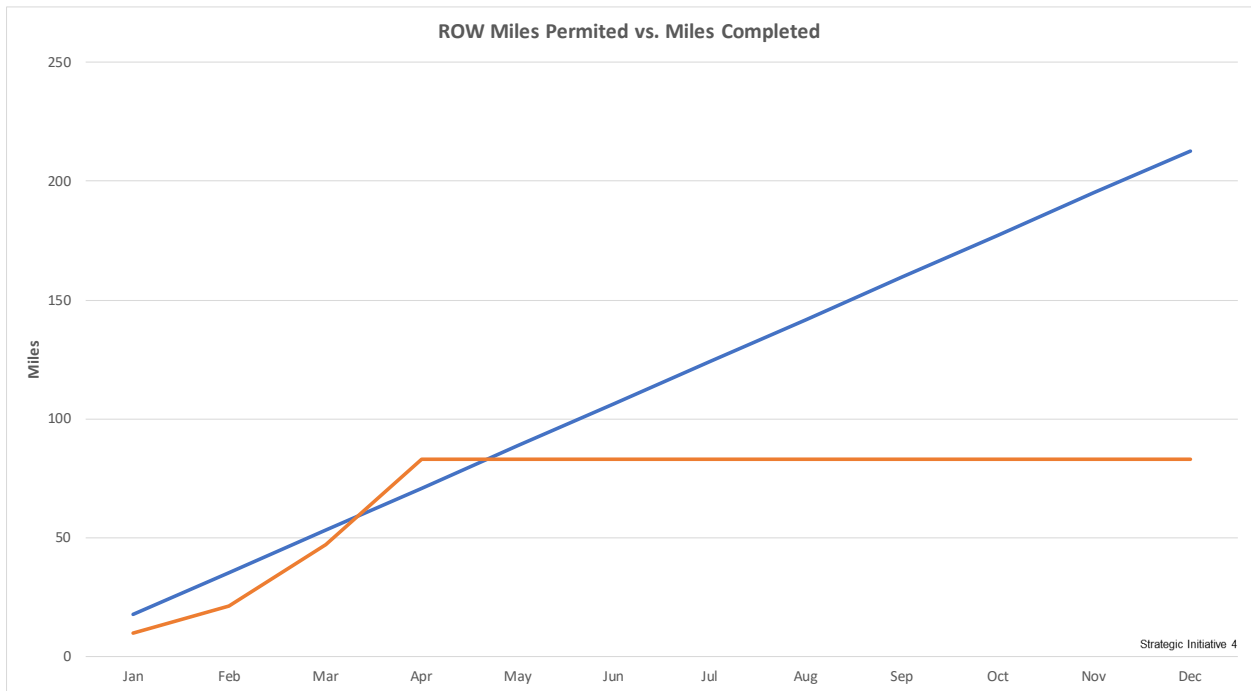
For the month of April, our line crews spent 2,090.0 man hours (39.8%) on work orders, 1,046.0 man hours (19.9%) on operations, 1,557.5 man hours (29.7%) on maintenance items and 556.5 man hours (10.6%) on holidays, vacation, sick, training, safety and inclement weather. Crews worked a total of 117 hrs. of overtime outside of the standby crew which represents 2.18% of overtime vs. total hours of operation hours worked.

The standby crew was called out 40 times during April, totaling 353.66 hours of actual overtime paid during the month.

**ROW**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

2020 Right-of-Way Tracking													
Substation	Circuit	Total Miles	Miles Permitted	Contractor	Started	Miles Complete	Tree Removals	Refusals	No. of Meters	% of Refusals	Resolved	Refusals left	No Response
Lovellaceville	Blandville	15.3	15.3	Townsend	No	10	189	2	148	1.4%	2	0	6
Lovellaceville	Cunningham	45.4	45.4	Townsend	Yes	30	380	13	578	2.2%	11	2	22
Lovellaceville	Lovellaceville	36.9	36.9	Townsend	No		50	5	603	0.8%		0	0
Burna	Hampton	10.15	10.15	Townsend	Yes	10.15		5	103	4.9%	5	0	
Burna	Salem	39.51	39.51	Halter	No		219		406	0.0%		0	
Burna	Smithland	65.5	65.5	Halter	No	32	660	11	433	2.5%	9	2	2
		212.76	212.76			82.15	1498	36	2271	1.6%	27	4	30



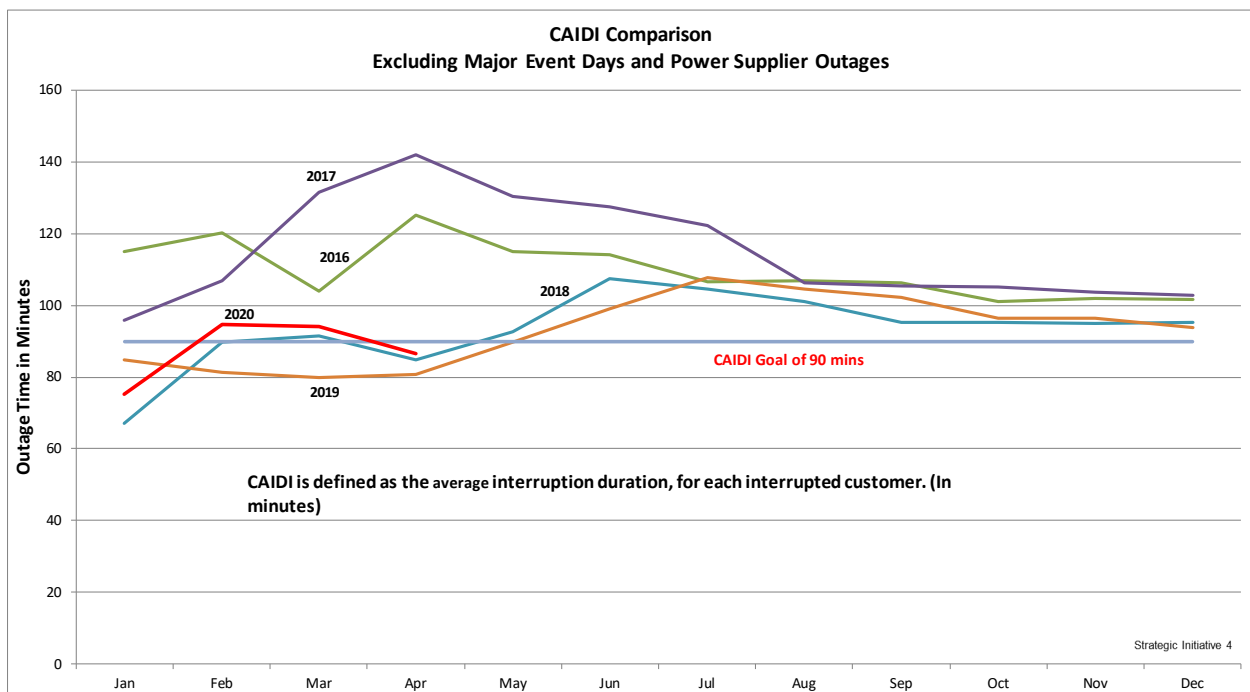
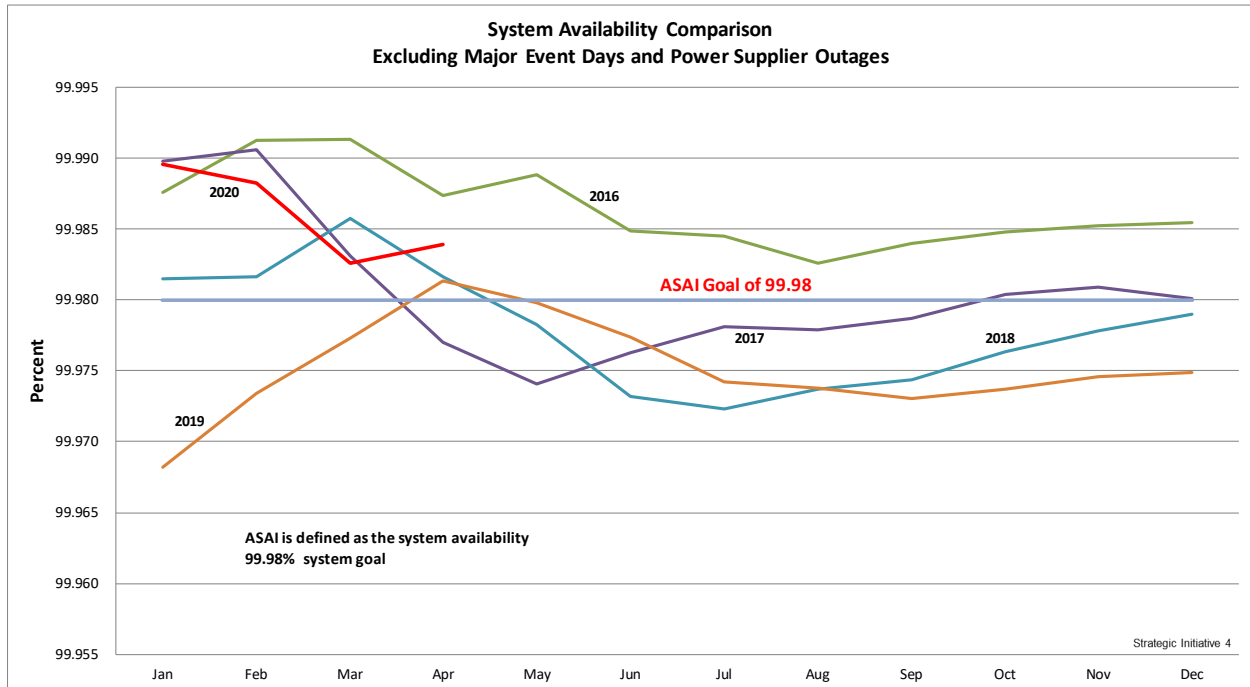
## Outages Indices:

### Strategic Initiative 4 – System Operations & Member Support Efficiencies

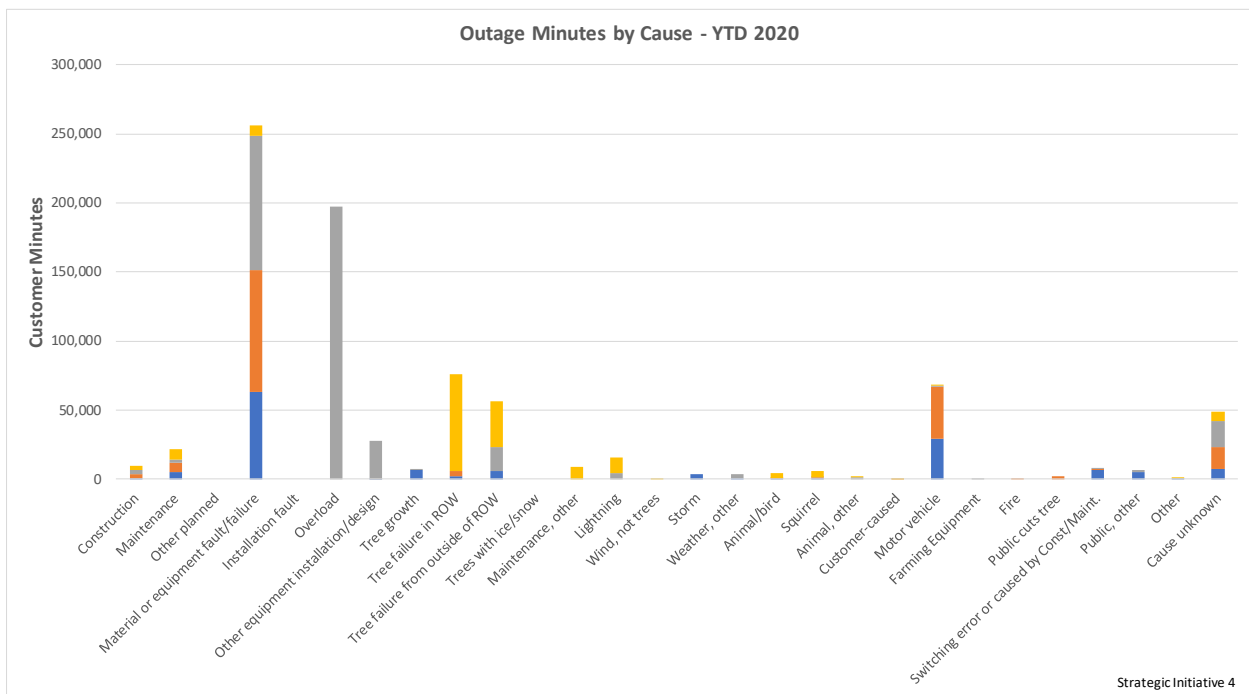
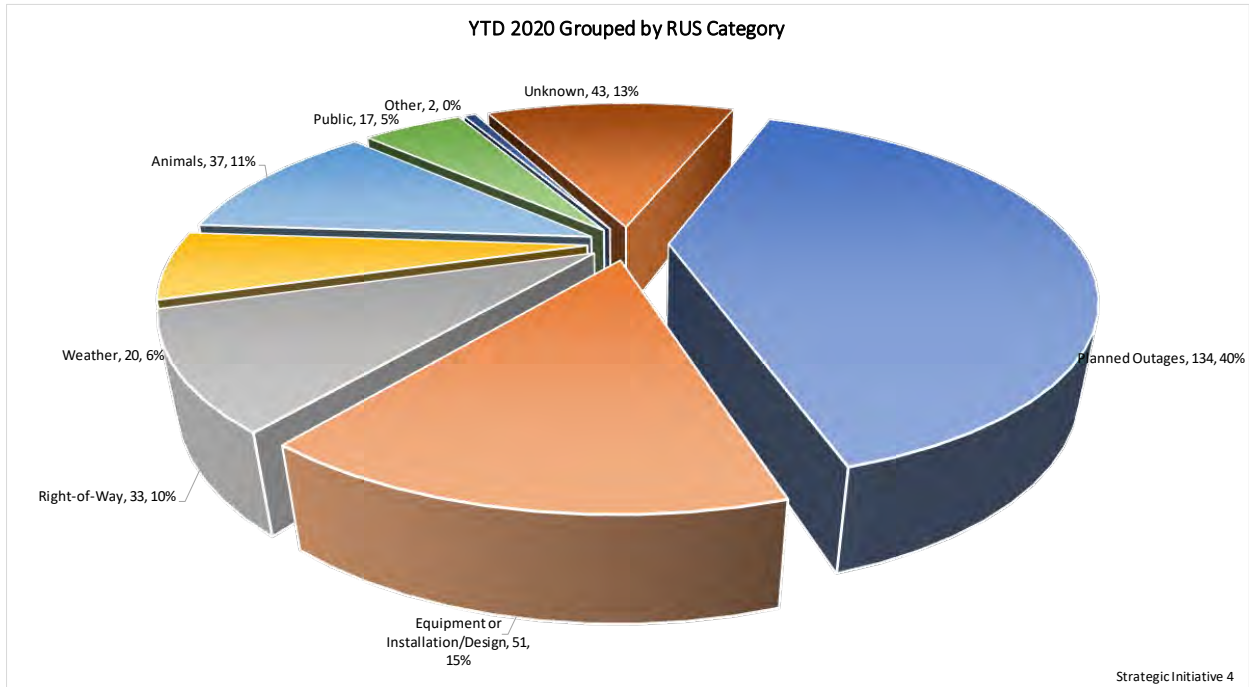
# of Outages – 117

Customers Affected – 2,432

Customer Hours Total – 2,593







# Engineering & Operations

## **CAPITAL PROJECTS**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

For the month of May 2020, 114 work orders were closed at a total cost of \$267,048.50. Of those, 20 were categorized “New Construction” at an average cost of \$2,644.52.

## **ONGOING PROJECTS**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

### **Substations:**

- Kansas substation was energized on 6/19 with upgrades completed.

### **CWP:**

- KYTC has approved JPEC’s permit for the line construction project dealing with the Ledbetter Bridge distribution line crossing. Omega Rail is still evaluating the crossing permit for the P&L line.

### **DVR:**

- Estimated savings for May was \$4,498.42.

### **Underground Locating:**

- JPEC has been monitoring USIC’s performance and for the most part, they have performed well. We have discussed a couple of issues and have adjusted by providing more details in mapping information.

## **SYSTEM INFORMATION**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

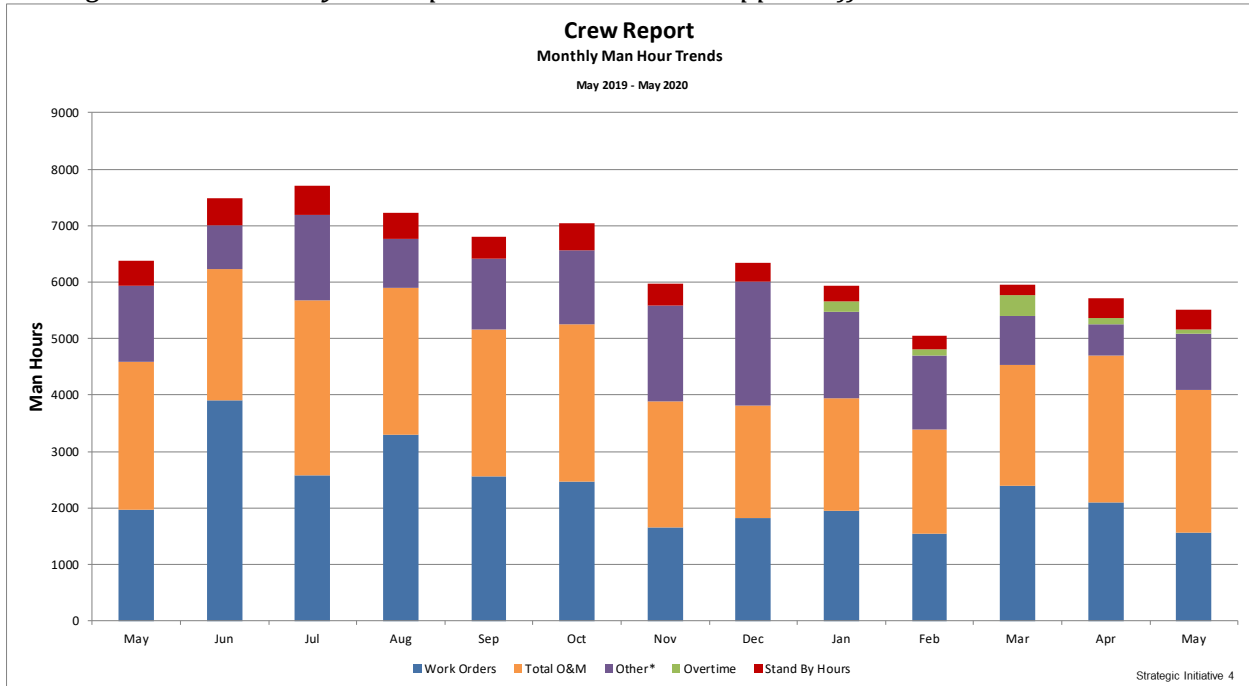
No substation experienced a new peak during the month of May 2020.

The Totals for the Rural System were:

Rural System Peak (5/25 @ 5:00 pm) .....	105,900 kW
Total System Energy Usage .....	42,067,681 kWh

**LINE OPERATIONS**

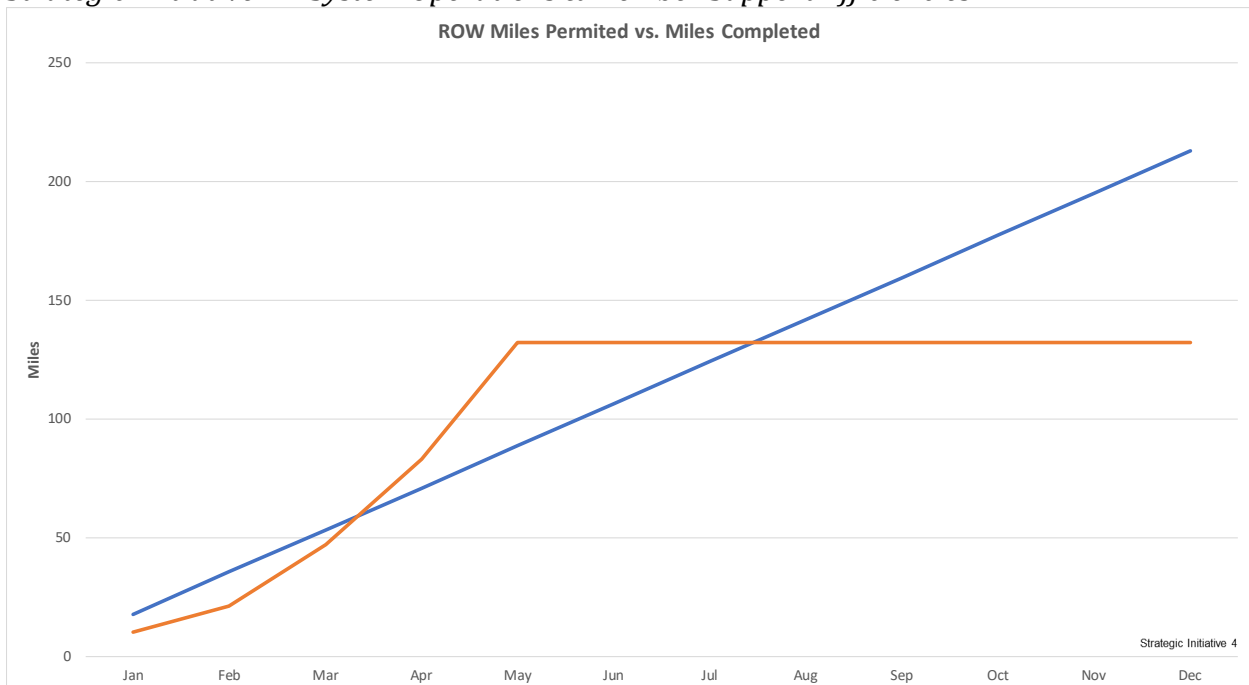
*Strategic Initiative 4 – System Operations & Member Support Efficiencies*



For the month of May, our line crews spent 1,571.0 man hours (30.9%) on work orders, 1,148.0 man hours (22.6%) on operations, 1,372.0 man hours (27.0%) on maintenance items and 989.0 man hours (19.5%) on holidays, vacation, sick, training, safety and inclement weather. The standby crew was called out 58 times during May, totaling 339.16 hours of actual overtime paid during the month.

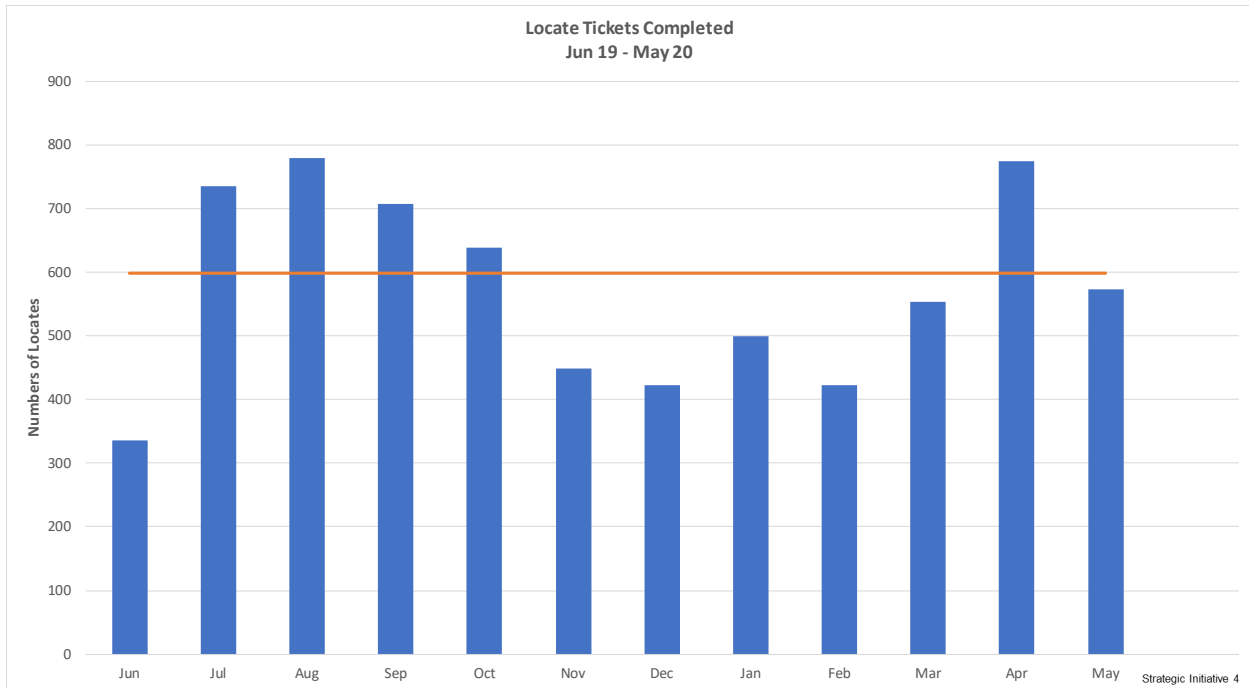
**ROW**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*



**LOCATES**

*Strategic Initiative 1 – Safety*



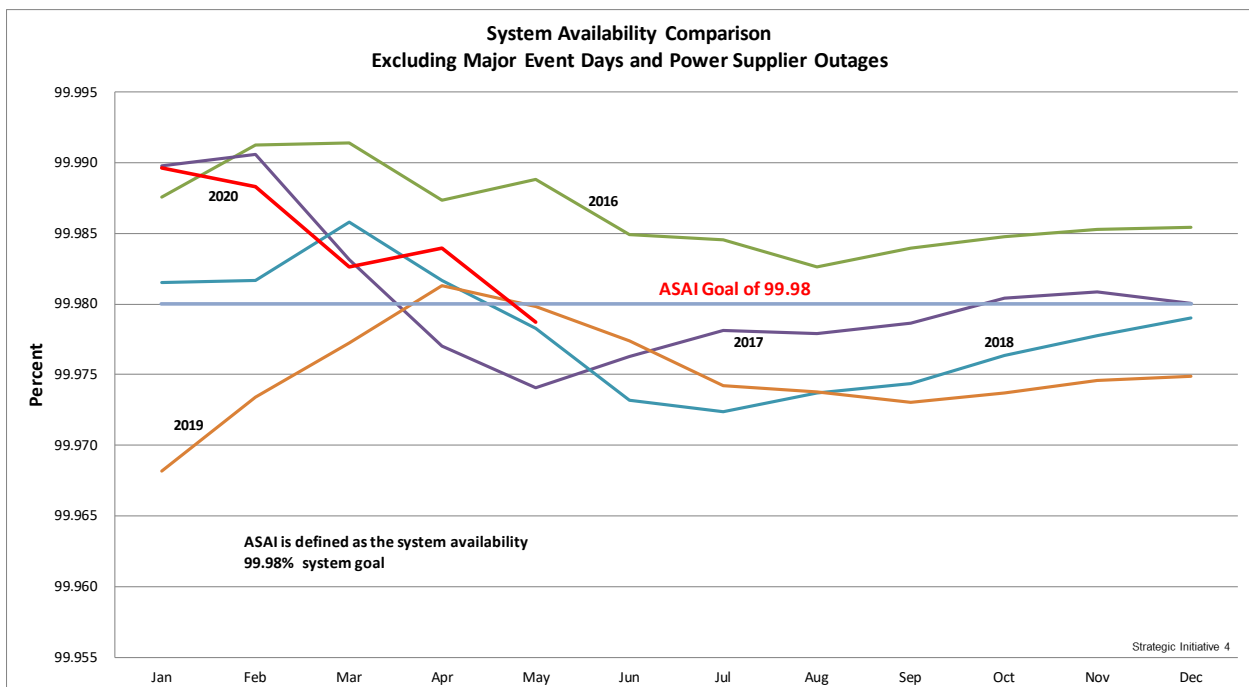
**Outages Indices:**

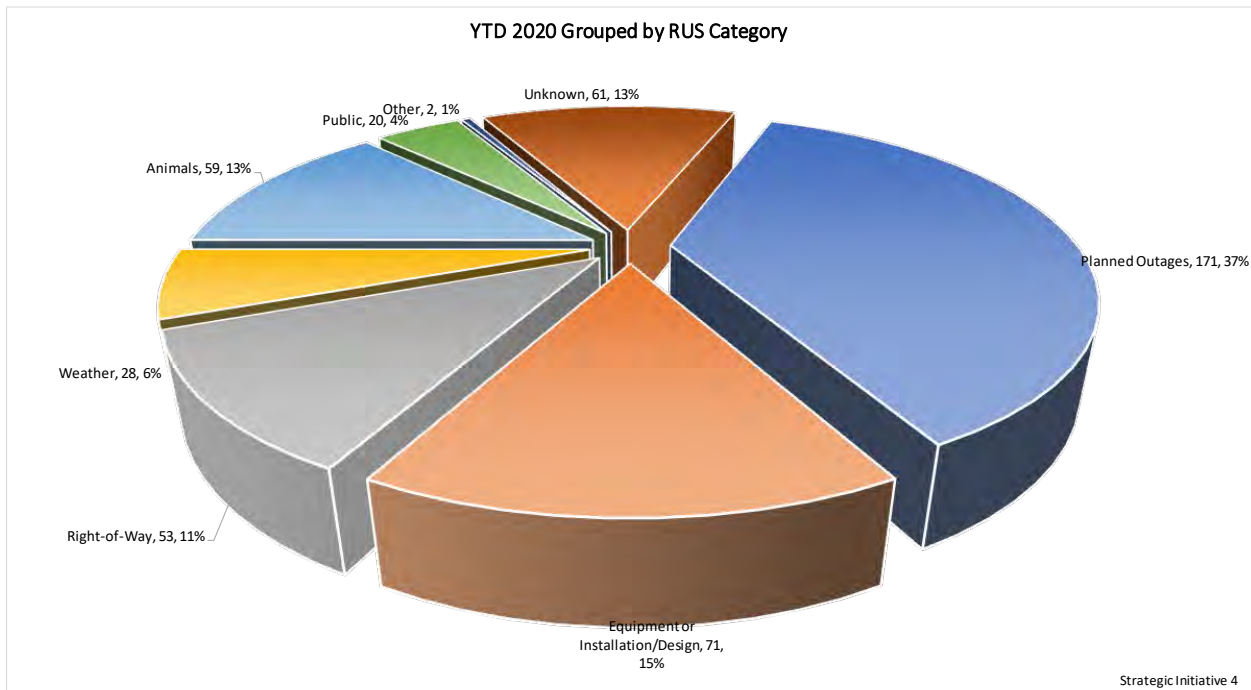
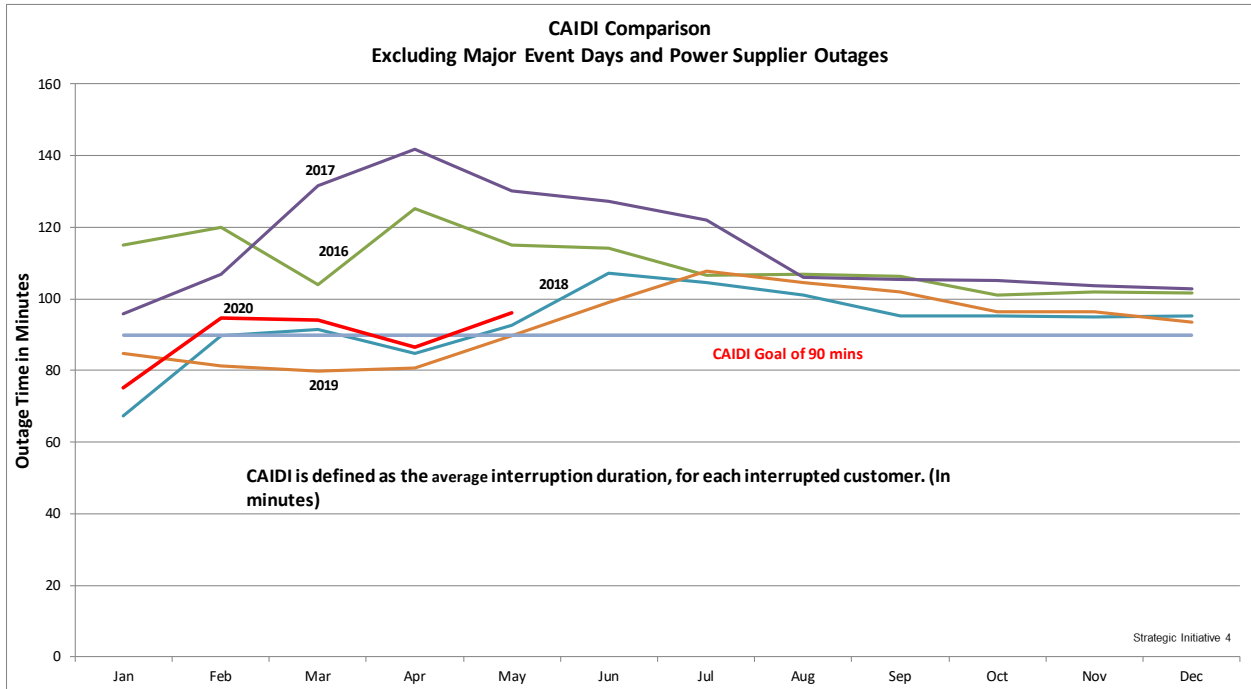
*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

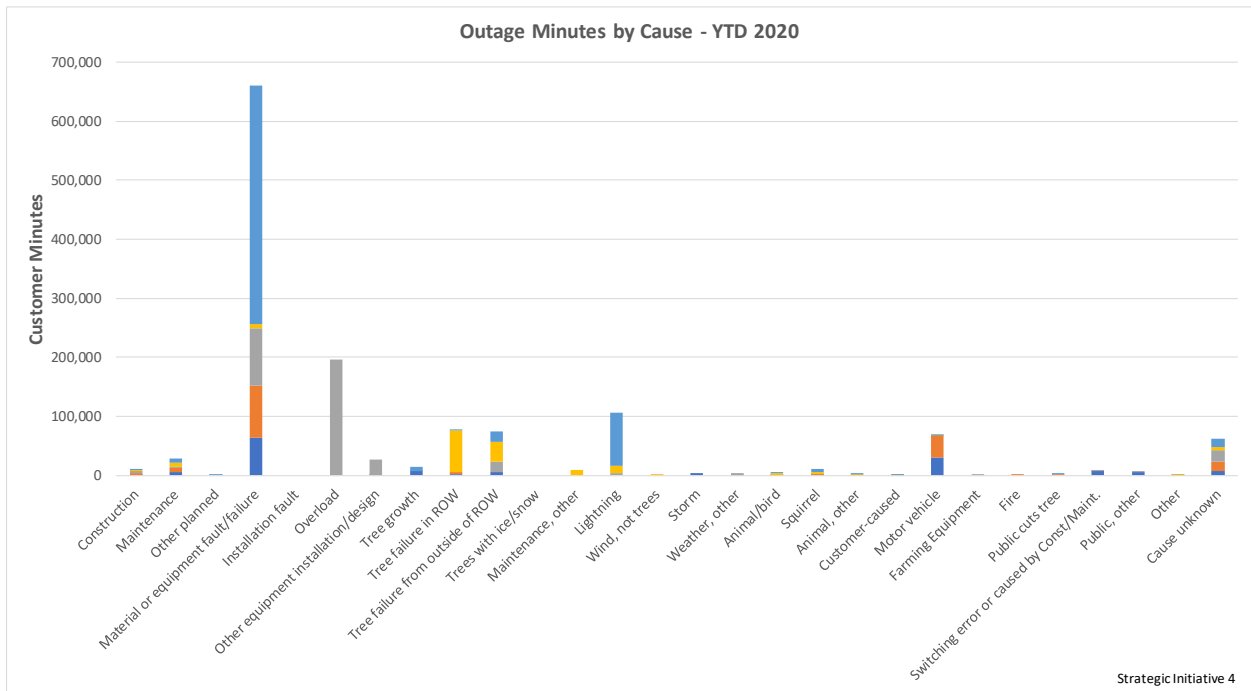
# of Outages – 128

Customers Affected – 4,810

Customer Hours Total – 9,240







# Engineering & Operations

## ONGOING PROJECTS

### *Strategic Initiative 4 – System Operations & Member Support Efficiencies*

#### **Economic Development:**

- We have received word from Todd Cooper, Ballard Co. Economic Development, that work is proceeding on the 72 acre industrial park around and behind the Two Rivers Fisheries in Wickliffe, KY. I've talked with Todd and they will be ready in the next few weeks for us to begin installing power.

#### **Substations:**

- Completed substation/transformer testing in Lovelaceville sub per testing plan. No issues found. Husbands Sept. 15<sup>th</sup> and Joy Oct. 8<sup>th</sup>.
- Replaced 69kV lightning arrestors in Grand Rivers Substation due to recent infrared study.
- Completed substation switch labeling in possum trot
- Strawberry Hill relay replacement planning has begun

#### **CWP:**

- Elliot has begun the installation of 2 - 3 phase circuits and 1 - 144 count fiber line across the Ledbetter bridge. Work should be completed by 8/28.
- Our CWP contractor, Groves Electric will begin Aug. 24<sup>th</sup> with their first project of tying the lines on the bridge into Reidland and Ledbetter substations. Omega Rail is still evaluating the crossing permit for the P&L line. Work is scheduled to be completed by 10/2.
- For the month of June 2020, 236 work orders were closed at a total cost of \$580,367.11. Of those, 46 were categorized "New Construction" at an average cost of \$4,223.36.
  - Note: There was one "New Construction" job that was \$66,725.84. If that job is removed, the average cost of a "New Construction" work order is \$2,834.42.

#### **DVR:**

- Estimated savings for June was \$2,705.73.

#### **ROW:**

- All work should be completed by the middle of September.
- Bids for 2021 work are scheduled to go out on 9/1/20. Circuits that are scheduled to be cut next year (depending on final bids) are:
  - Krebs/Clinton Rd      LaCenter/Oscar      New York/Wickliffe
  - Kevil/Kelly Rd      Ragland/Monkey's Eyebrow      Kansas/Pottsville
  - Kevil/Woodville Rd      Little Union/Airport

#### **Other Projects**

- I am currently working with landowners on the Maxon Rd. side of the new office on an easement. I have also talked with the state about installing a line in the state's ROW along Hwy 60.

**SYSTEM INFORMATION**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

One substation experienced a new peak during the month of June, 2020.

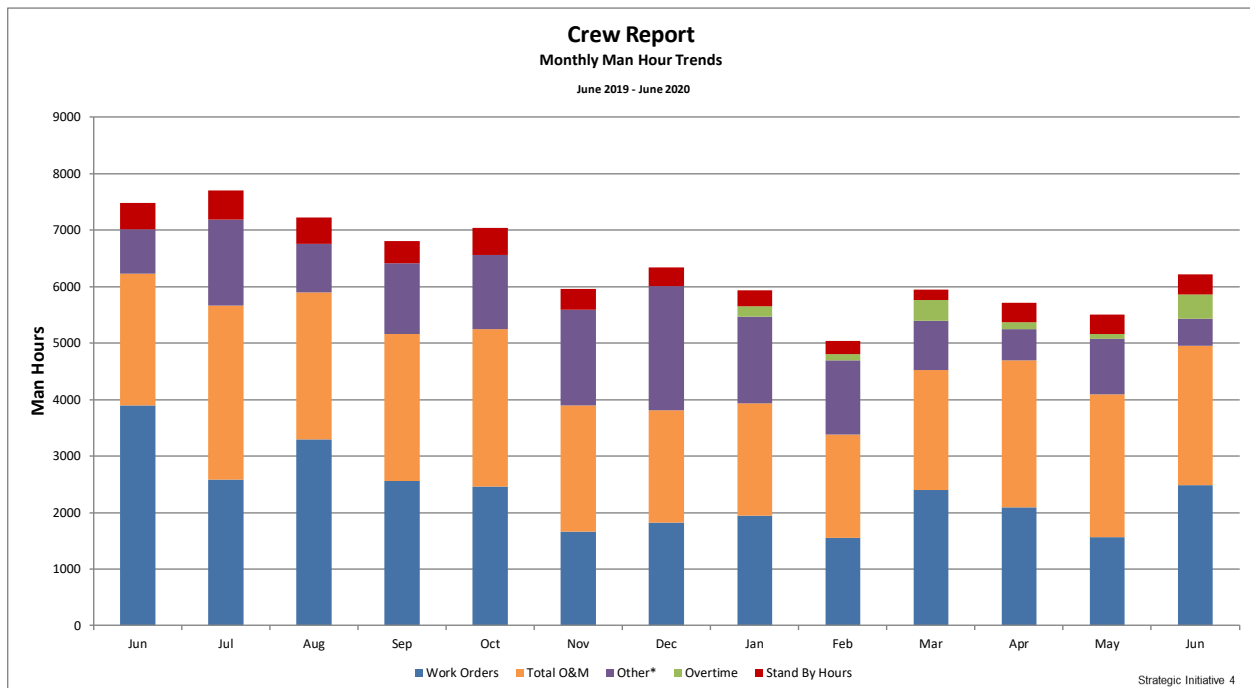
Substation	Old Peak Month	Old kW Peak	New Peak Month	New kW Peak
Lovellsville	January 2014	5,676.40	June 2020	6,302.80

The Totals for the Rural System were:

Rural System Peak (6/29 @ 4:00 pm) ..... 127,018 kW  
Total System Energy Usage ..... 55,267,767 kWh

**LINE OPERATIONS**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*



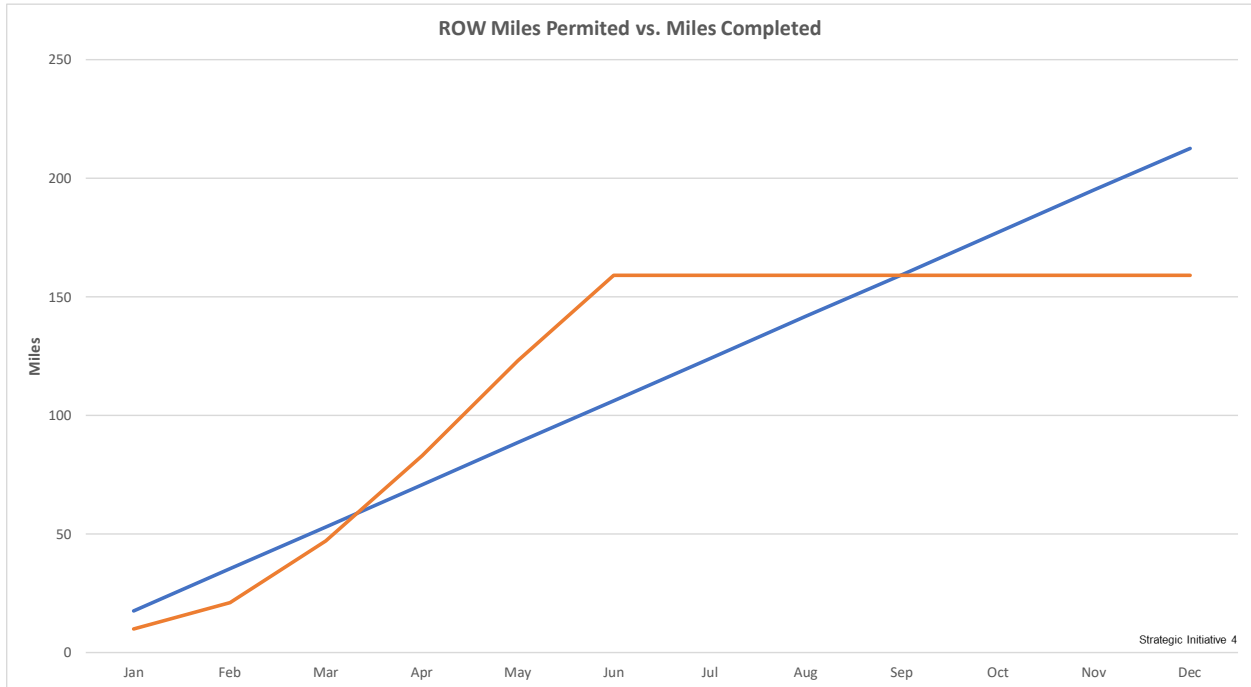
For the month of June, our line crews spent 2,482.5 man hours (45.7%) on work orders, 934.0 man hours (17.2%) on operations, 1,538.0 man hours (28.3%) on maintenance items and 478.0 man hours (8.8%) on holidays, vacation, sick, training, safety and inclement weather.

The standby crew was called out 54 times during June, totaling 356.84 hours of actual overtime paid during the month.



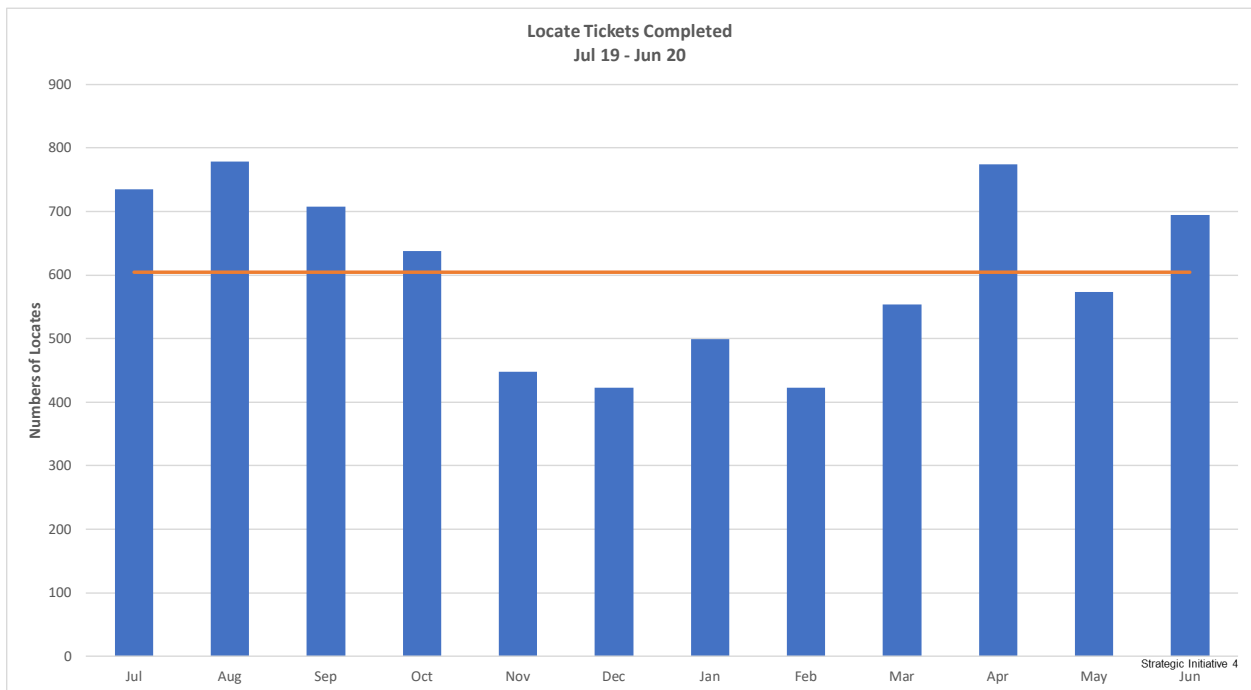
**ROW**

*Strategic Initiative 4 – System Operations & Member Support Efficiencies*



**LOCATES**

*Strategic Initiative 1 – Safety*



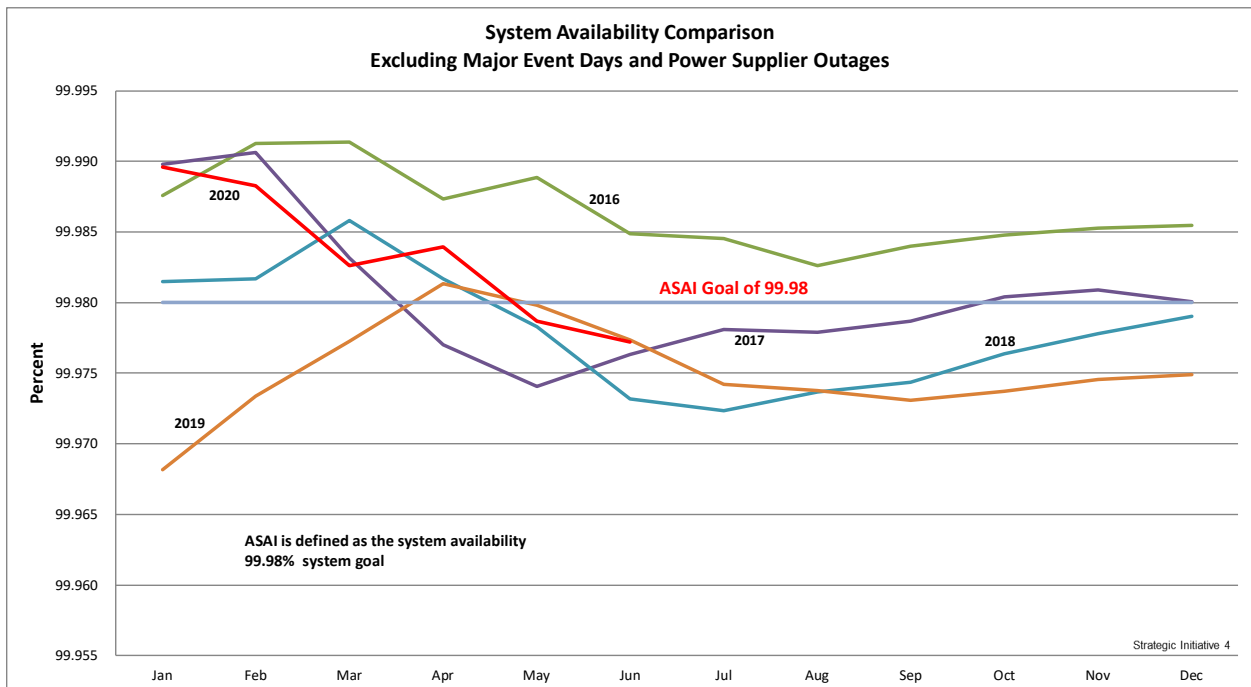
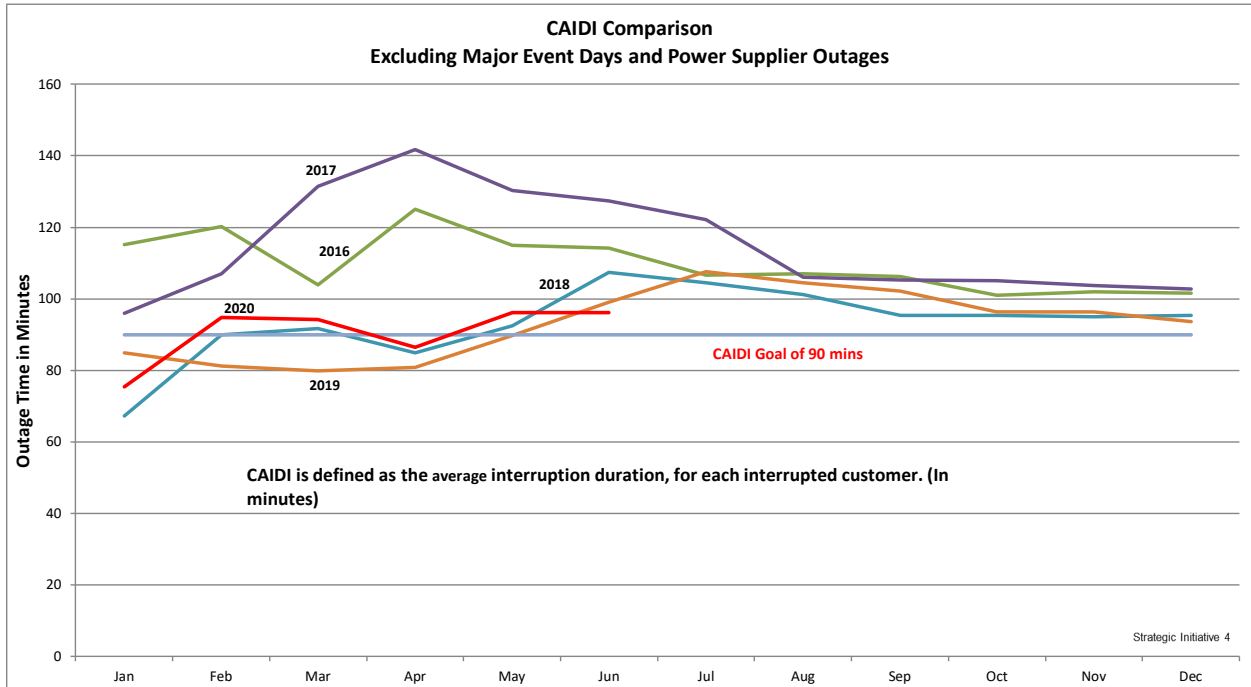
**Outages Indices:**

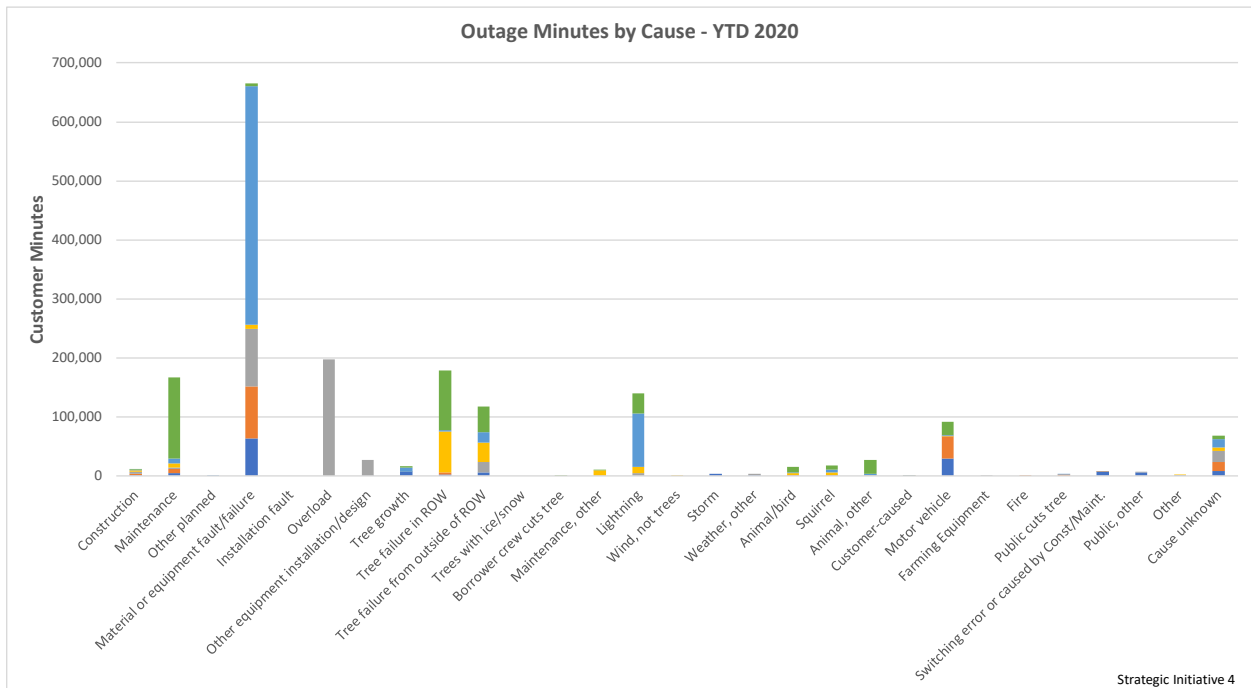
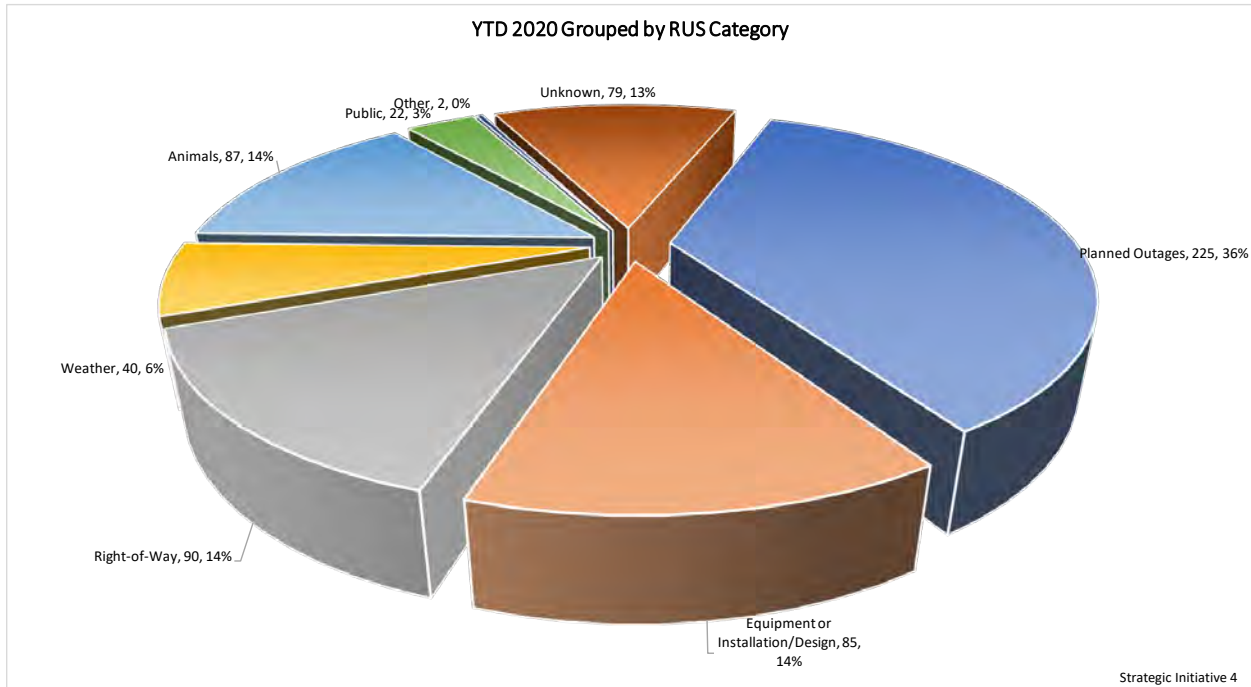
*Strategic Initiative 4 – System Operations & Member Support Efficiencies*

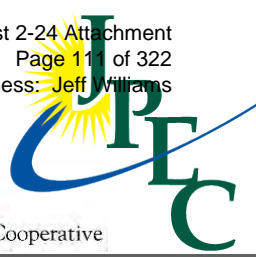
# of Outages – 165

Customers Affected – 4,066

Customer Hours Total – 6,537

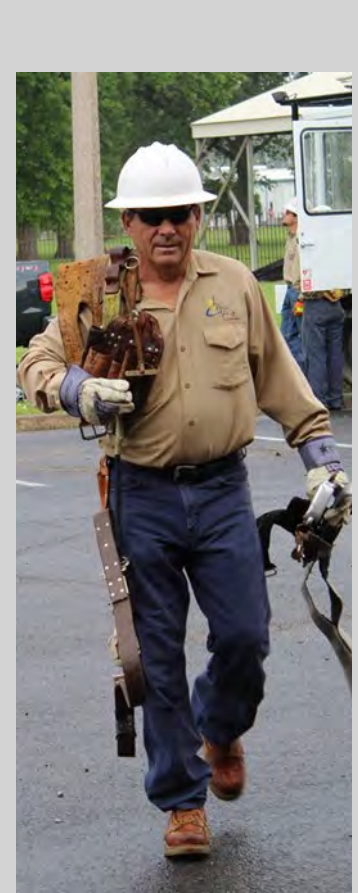




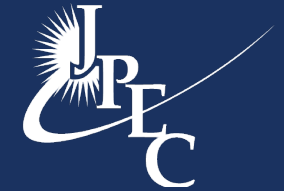


# Jackson Purchase Energy Corporation

Engineering and Operations  
September 2020



# JACKSON PURCHASE ENERGY

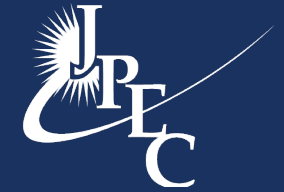


## 2019 Strategic Initiatives

1. **Safety** – instill a culture of safety throughout the entire organization as it applies to cooperatives
2. **Member/Community Relations** – develop strategic communications plan that will increase presence and standing within the communities we serve and keep members better informed
3. **Facilities** – evaluate future options for office and warehouse space
4. **System Operations and Member Support Efficiencies** – continue to make improvements to system reliability and maximize the efficient use of the cooperative's assets
5. **Economic Development** – determine how the cooperative may be able to aid in local economic development.

# ENGINEERING & OPERATIONS

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



### **CWP:**

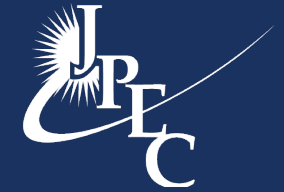
- Elliot has begun the installation of 2 – 3 phase circuits and 1 - 144 count fiber line across the Ledbetter bridge. Work should be completed by September 18<sup>th</sup>.
- For the month of July 2020, 178 work orders were closed at a total cost of \$504,307.77. Of those, 39 were categorized “New Construction” at an average cost of \$6,177.36.
  - Note: There was one “New Construction” job that cost \$160,802.92. If that job is removed, the average cost of a “New Construction” work order is \$2,108.26.

### **ECONOMIC DEVELOPMENT:**

- We have received word from Todd Cooper, Ballard Co. Economic Development, that work is proceeding on the 72-acre industrial park around and behind the Two Rivers Fisheries in Wickliffe, KY. I’ve talked with Todd and they will be ready in the next few weeks for us to begin installing power.

# ENGINEERING & OPERATIONS

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



### **SUBSTATIONS:**

- Completed substation/transformer testing in Lovelaceville sub per testing plan. No issues found.  
Husbands Road – September 15; Joy – October 15
- Strawberry Hill relay replacement, November 3<sup>rd</sup>
- Switch labeling in Possum Trot. 5 stations left to complete.

### **SECTIONALIZING STUDY:**

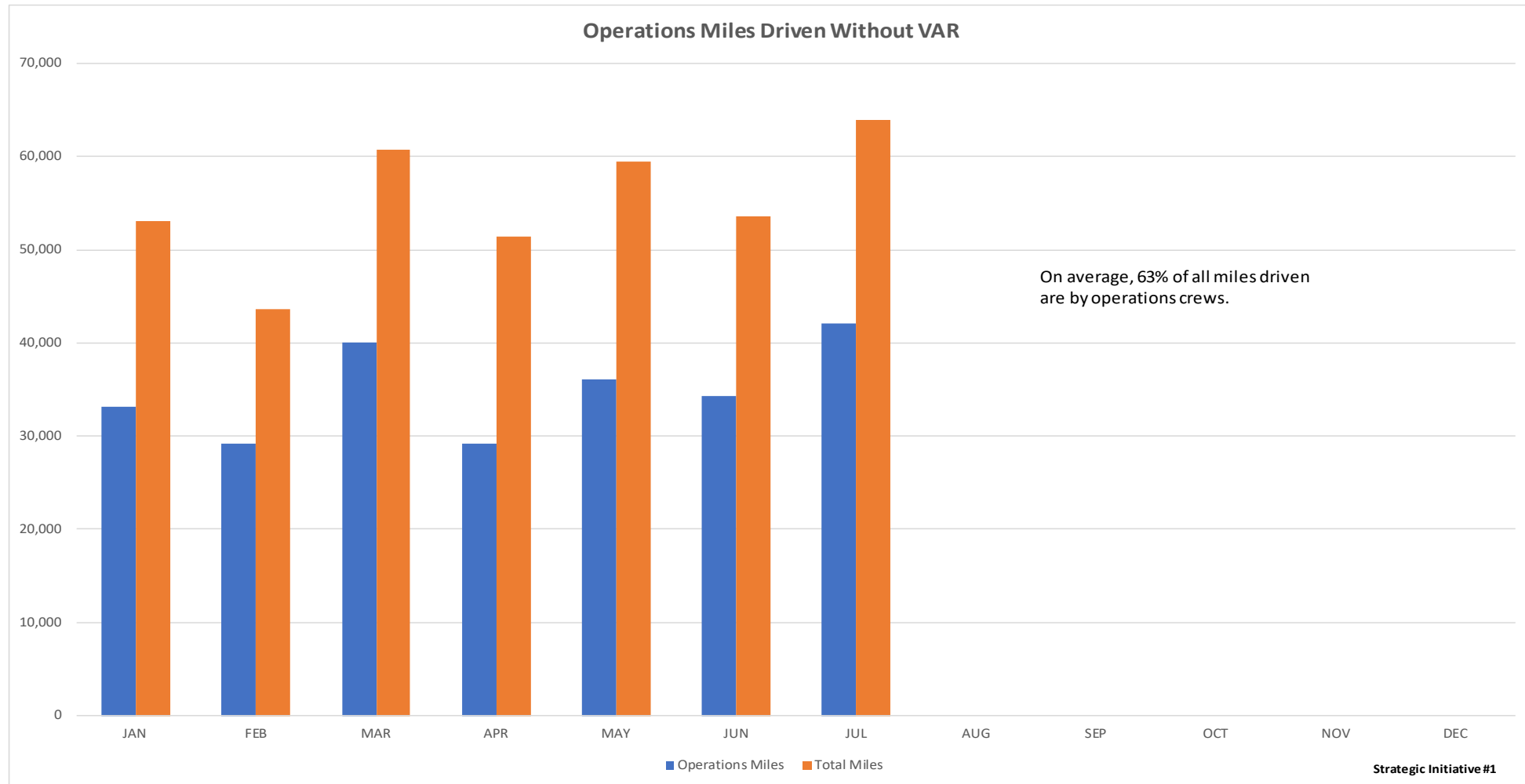
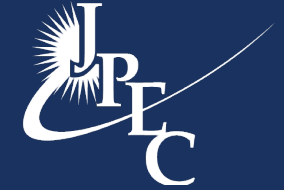
- Working on updating all information from 2009 study
- Looking at adding automated switches along fiber route

### **DVR SYSTEM OPERATIONS / AMI INTERFACE:**

- Estimated savings for June was \$21,517.37

# ENGINEERING & OPERATIONS

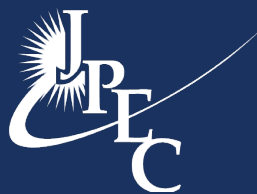
## STRATEGIC INITIATIVE 1 – SAFETY



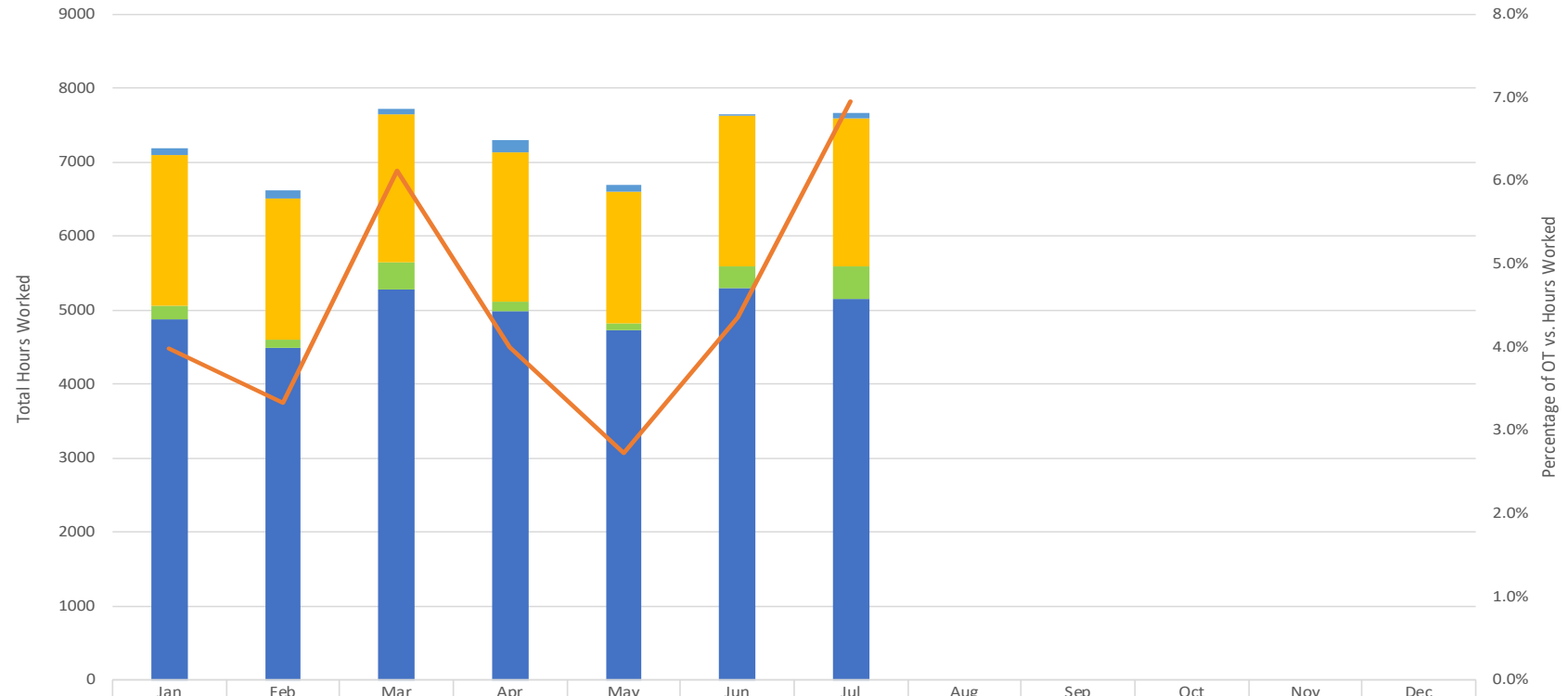


# ENGINEERING & OPERATIONS

## STRATEGIC INITIATIVE I – SAFETY



E&O Hours Worked and Percentage of Overtime in Relation to Hours Worked

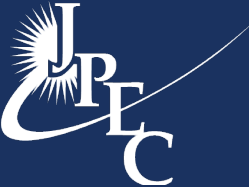


	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Engineering Overtime	91	102.5	79.5	164	93.5	22.5	66.5					
Engineering Hours Worked	2036	1925	2002.5	2029	1785	2023.5	2000					
Operations Overtime	185	111	366.5	117	84.5	297	432	0	0	0	0	0
Operations Hours Worked	4885.5	4485	5274.5	4998	4734	5306	5163					
OT as Percentage of Hours Worked	4.0%	3.3%	6.1%	4.0%	2.7%	4.4%	7.0%					

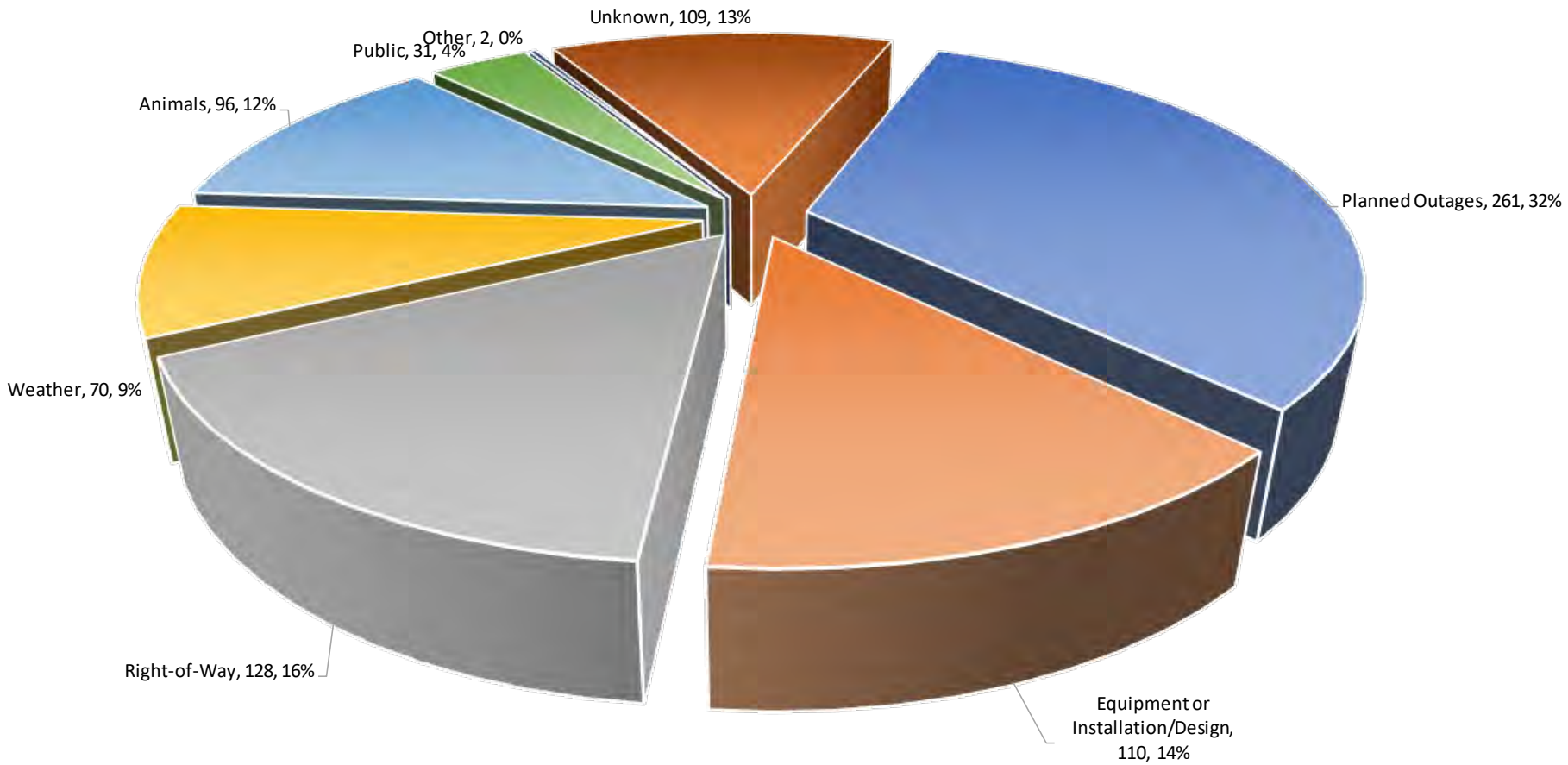
Strategic Initiative #1

# ENGINEERING & OPERATIONS

STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

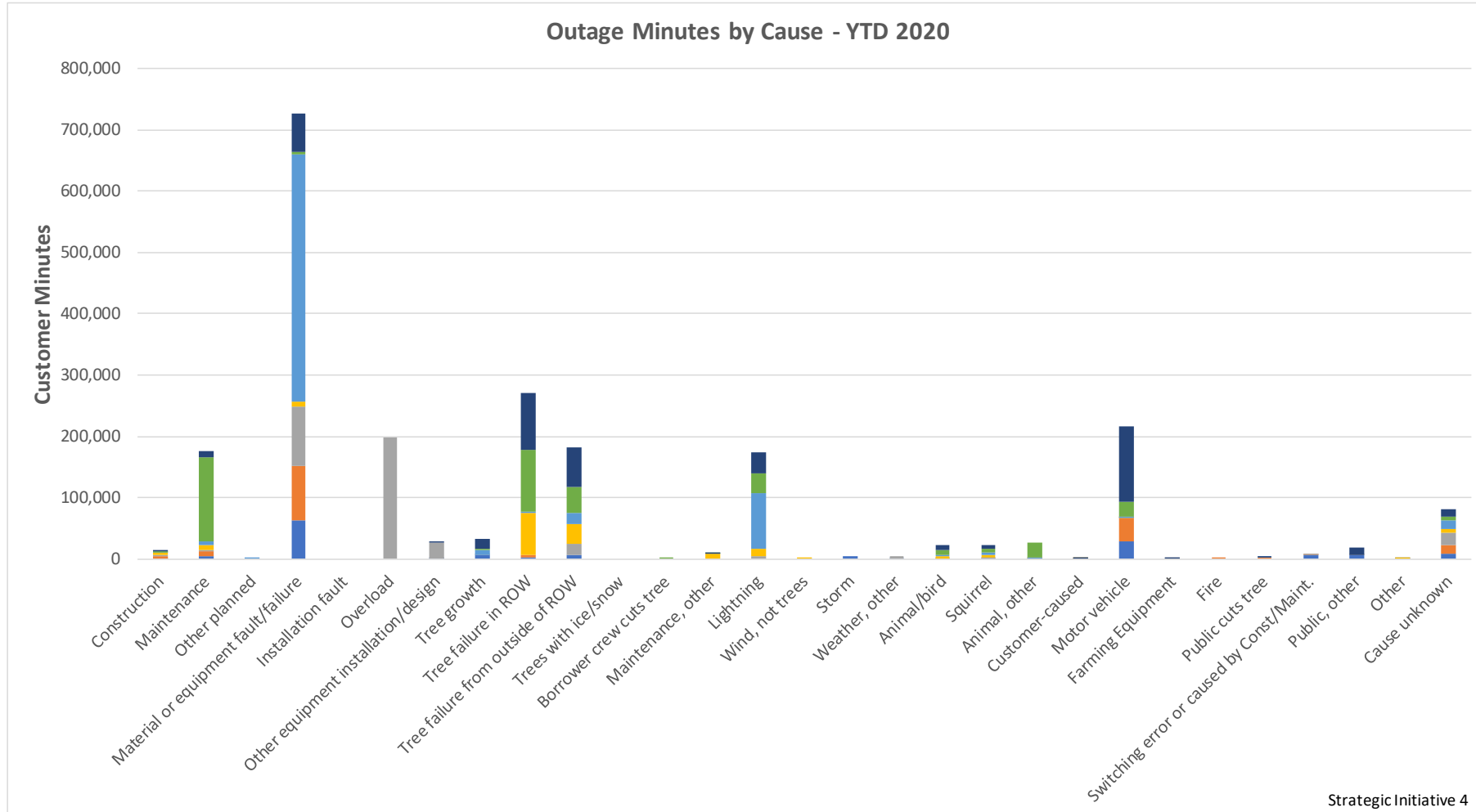
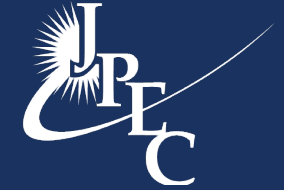


YTD 2020 Grouped by RUS Category



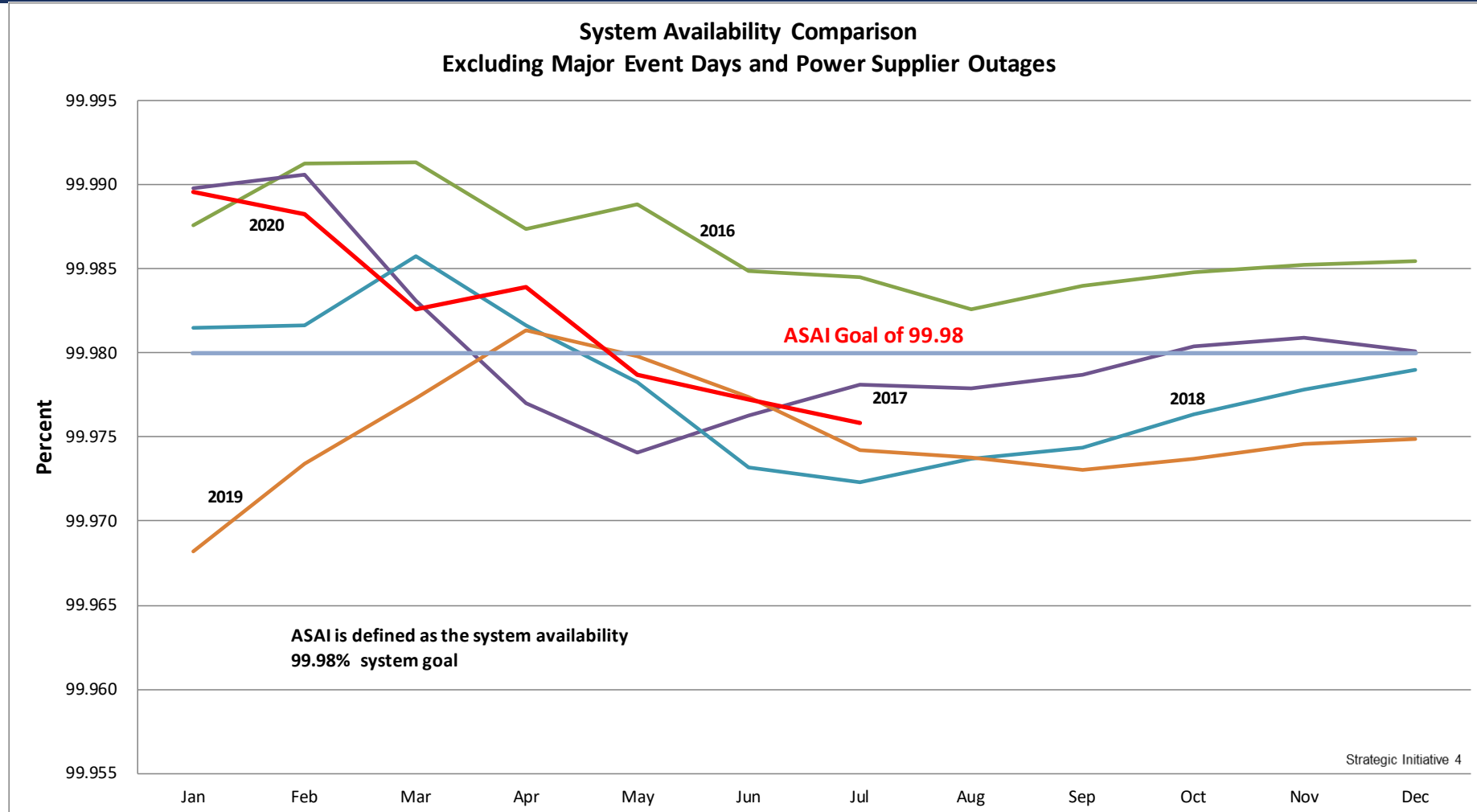
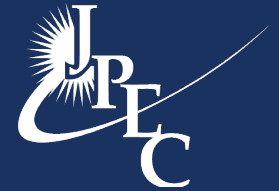
# ENGINEERING & OPERATIONS

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



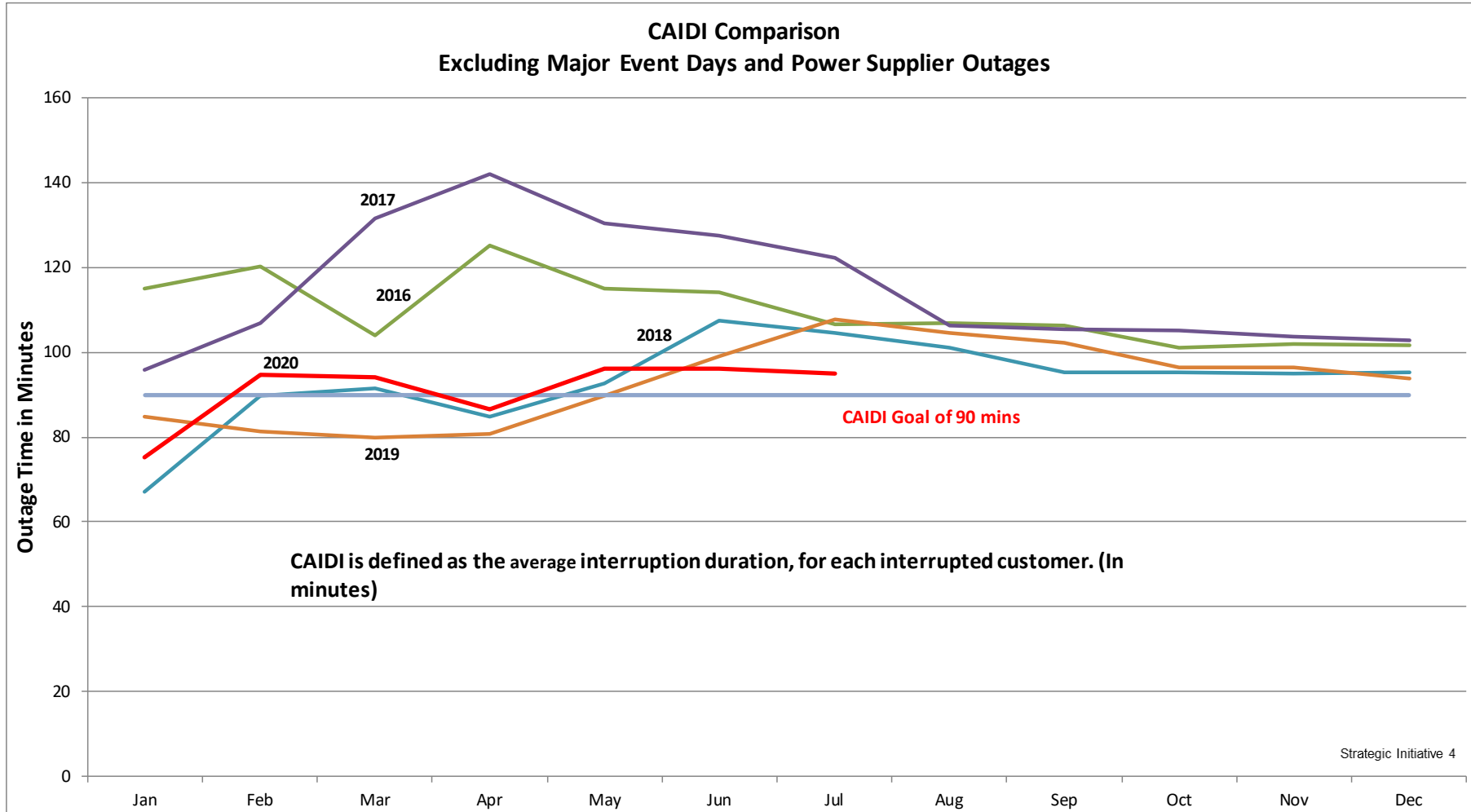
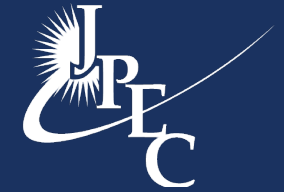
# ENGINEERING & OPERATIONS

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



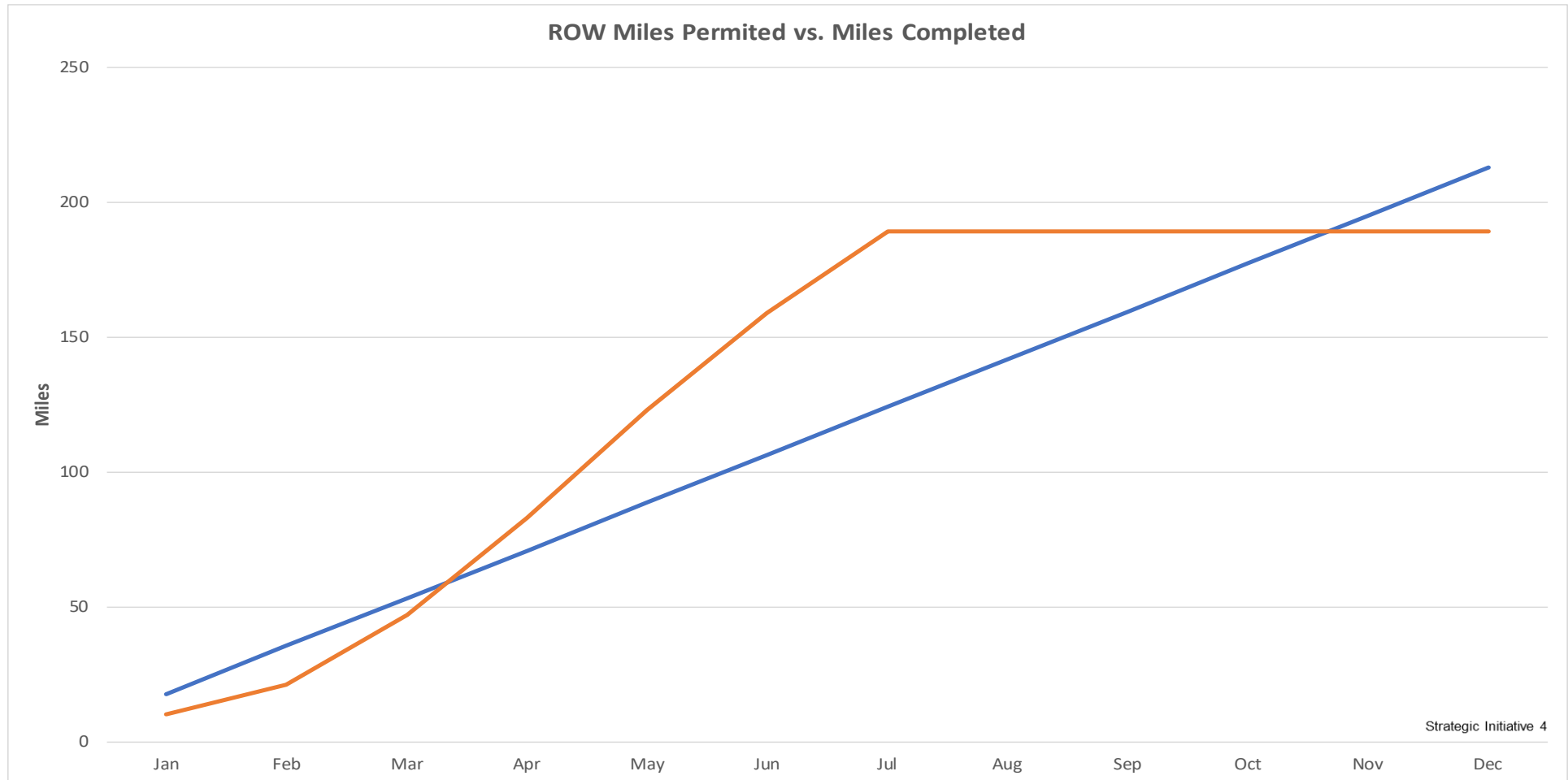
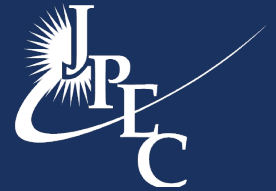
# ENGINEERING & OPERATIONS

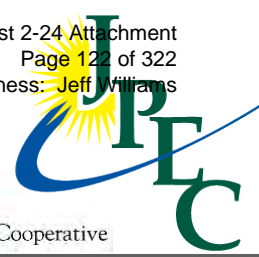
## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



# ENGINEERING & OPERATIONS

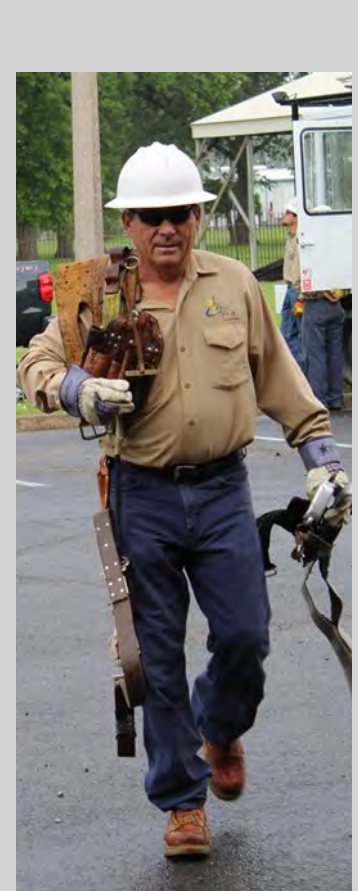
## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



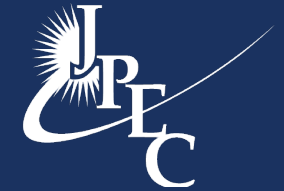


# Jackson Purchase Energy Corporation

Engineering and Operations  
October 2020



# JACKSON PURCHASE ENERGY



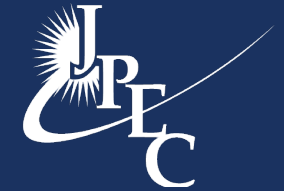
## 2019 Strategic Initiatives

1. **Safety** – instill a culture of safety throughout the entire organization as it applies to cooperatives
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3. **Facilities** – evaluate future options for office and warehouse space
4. **System Operations and Member Support Efficiencies** – continue to make improvements to system reliability and maximize the efficient use of the cooperative's assets
5. **Economic Development** – determine how the cooperative may be able to aid in local economic development.



# ENGINEERING & OPERATIONS

STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



## **CWP:**

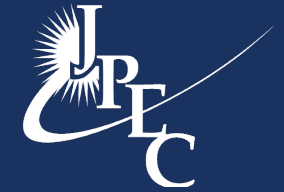
- Ledbetter Bridge Wire & Fiber has been completed. We have received the RR permit and will begin working on the McCracken Co. side of the bridge in the next couple of weeks.
- Groves is working on moving lines at the new Smithland Bridge for KYTC
- For the month of August 2020, 225 work orders were closed at a total cost of \$535,650.40. Of those, 48 were categorized “New Construction” at an average cost of \$3,050.38.

## **ECONOMIC DEVELOPMENT:**

- The first phase of work is completed on the 72-acre industrial park around and behind the Two Rivers Fisheries in Wickliffe, KY. We are in talks with a company that will be working in the existing building and will be building a new service to support this new load.

# ENGINEERING & OPERATIONS

STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



## **SUBSTATIONS:**

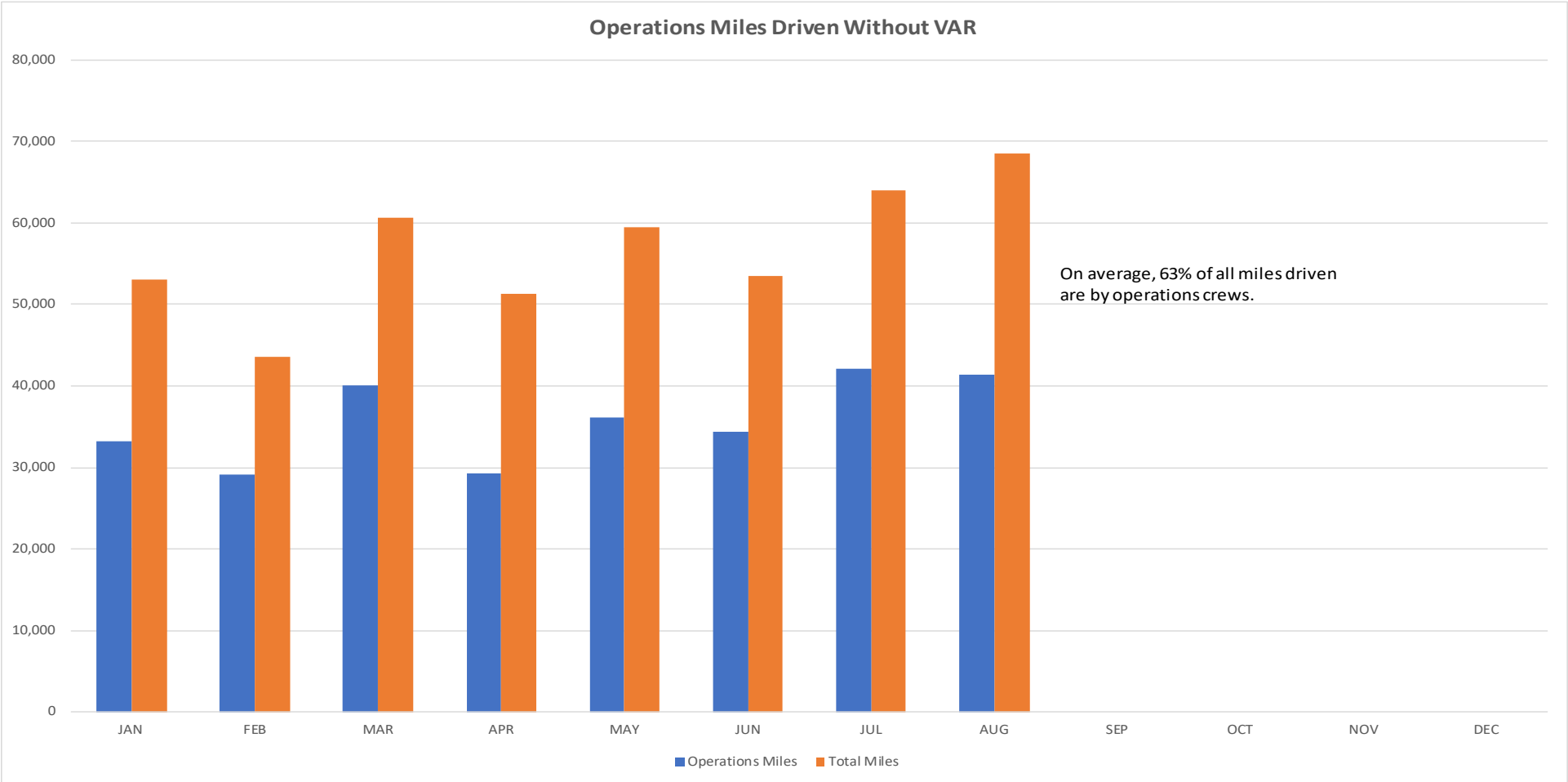
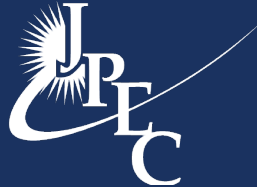
- Completed substation/transformer testing in Husbands Road and no issues were found.
  - Joy - October 15
- Strawberry Hill relay replacement, November
- Two subs left to label and number by the end of the year

## **DVR SYSTEM OPERATIONS/AMI INTERFACE:**

- Estimated savings for June was \$8,227.47

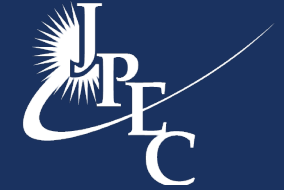
# ENGINEERING & OPERATIONS

STRATEGIC INITIATIVE I – SAFETY

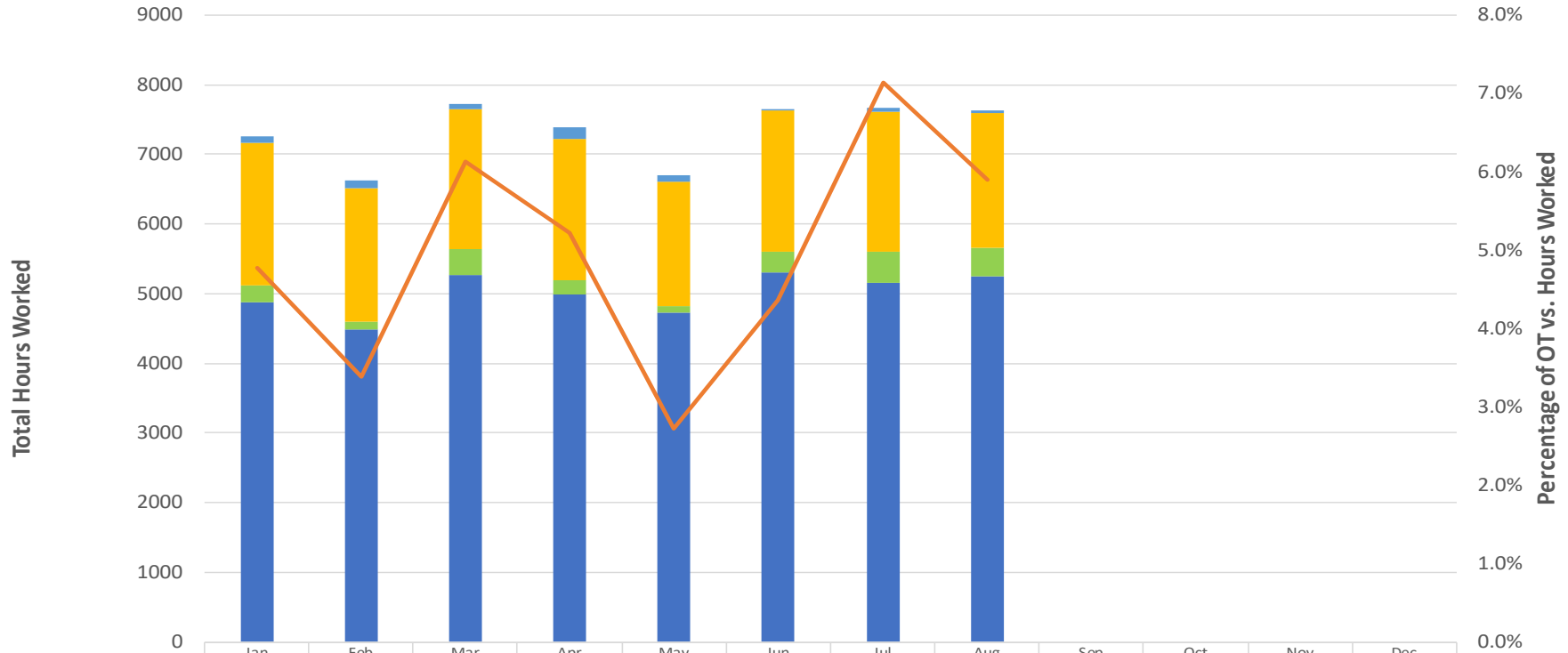


# ENGINEERING & OPERATIONS

## STRATEGIC INITIATIVE I – SAFETY



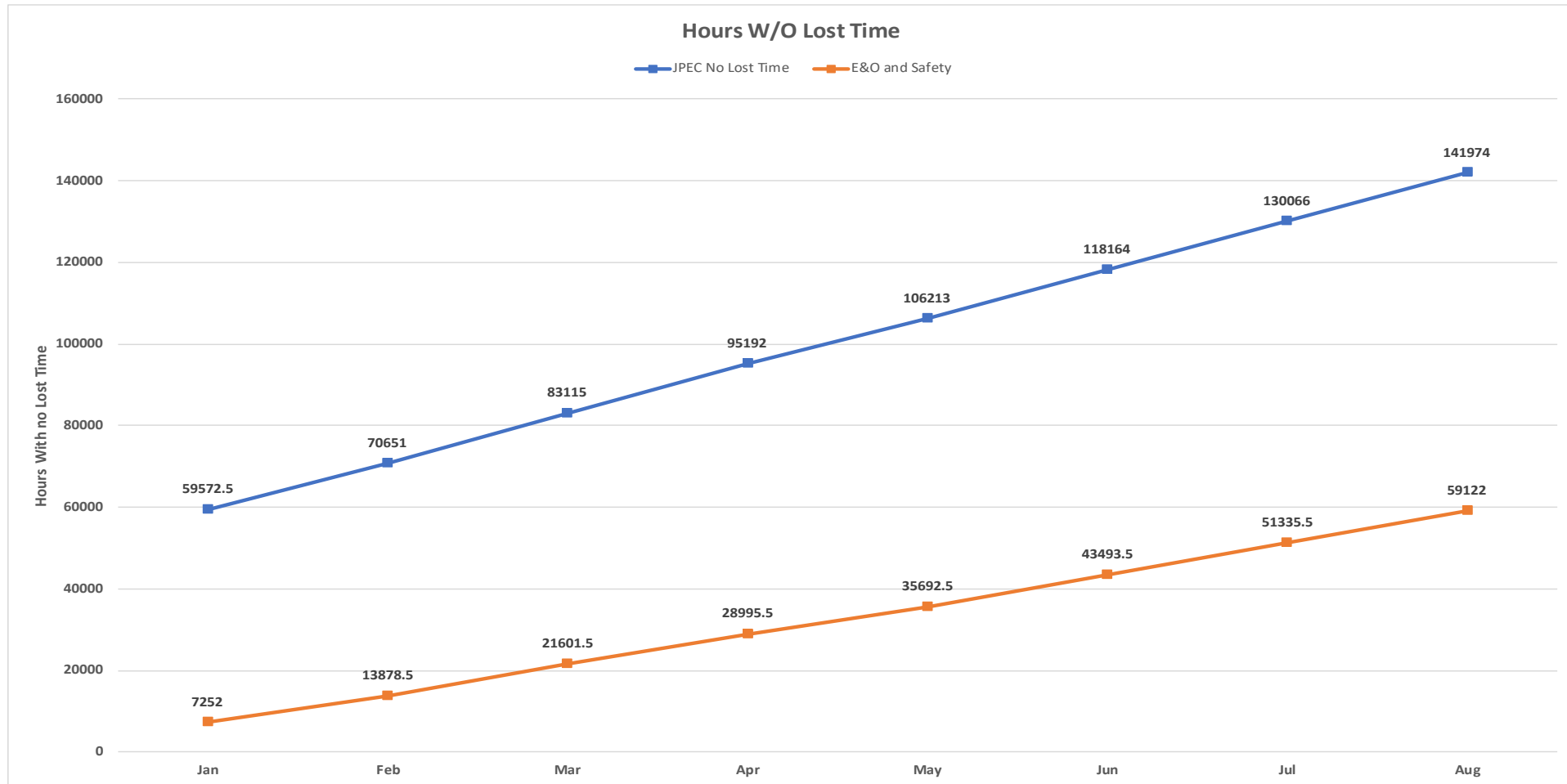
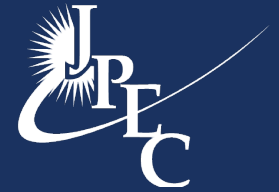
E&O Hours Worked and Percentage of Overtime in Relation to Hours Worked



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Engineering Overtime	91	102.5	79.5	164	93.5	22.5	66.5	29.5	0	0	0	0
Engineering Hours Worked	2036	1925	2002.5	2029	1785	2023.5	2000	1946.5	0	0	0	0
Operations Overtime	239.5	114	366.5	203	84.5	297	444.5	395	0	0	0	0
Operations Hours Worked	4885.5	4485	5274.5	4998	4734	5306	5163	5255.5	0			
OT as Percentage of Hours Worked	4.8%	3.4%	6.1%	5.2%	2.7%	4.4%	7.1%	5.9%				

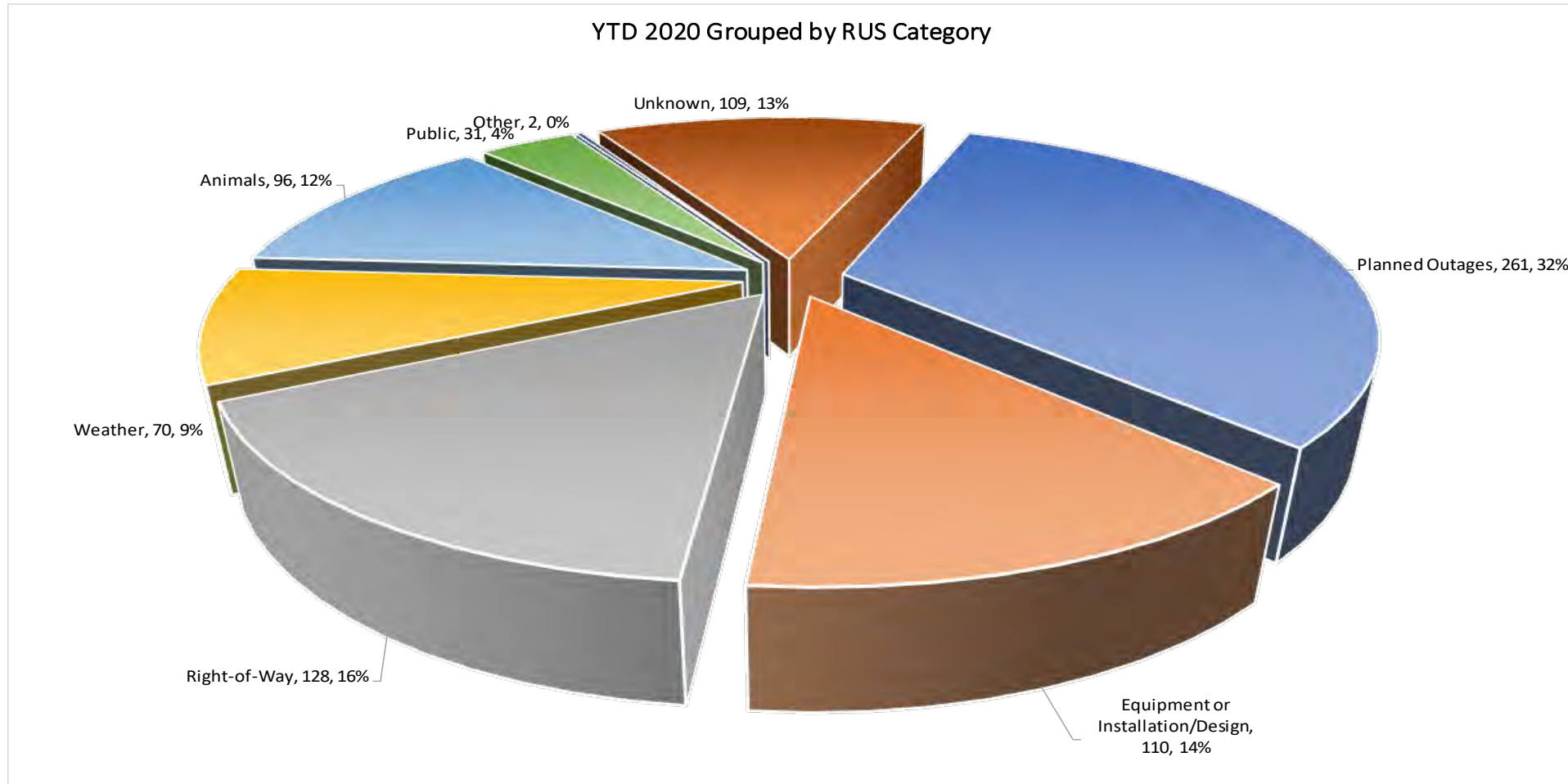
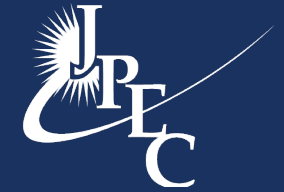
# ENGINEERING & OPERATIONS

## STRATEGIC INITIATIVE I – SAFETY



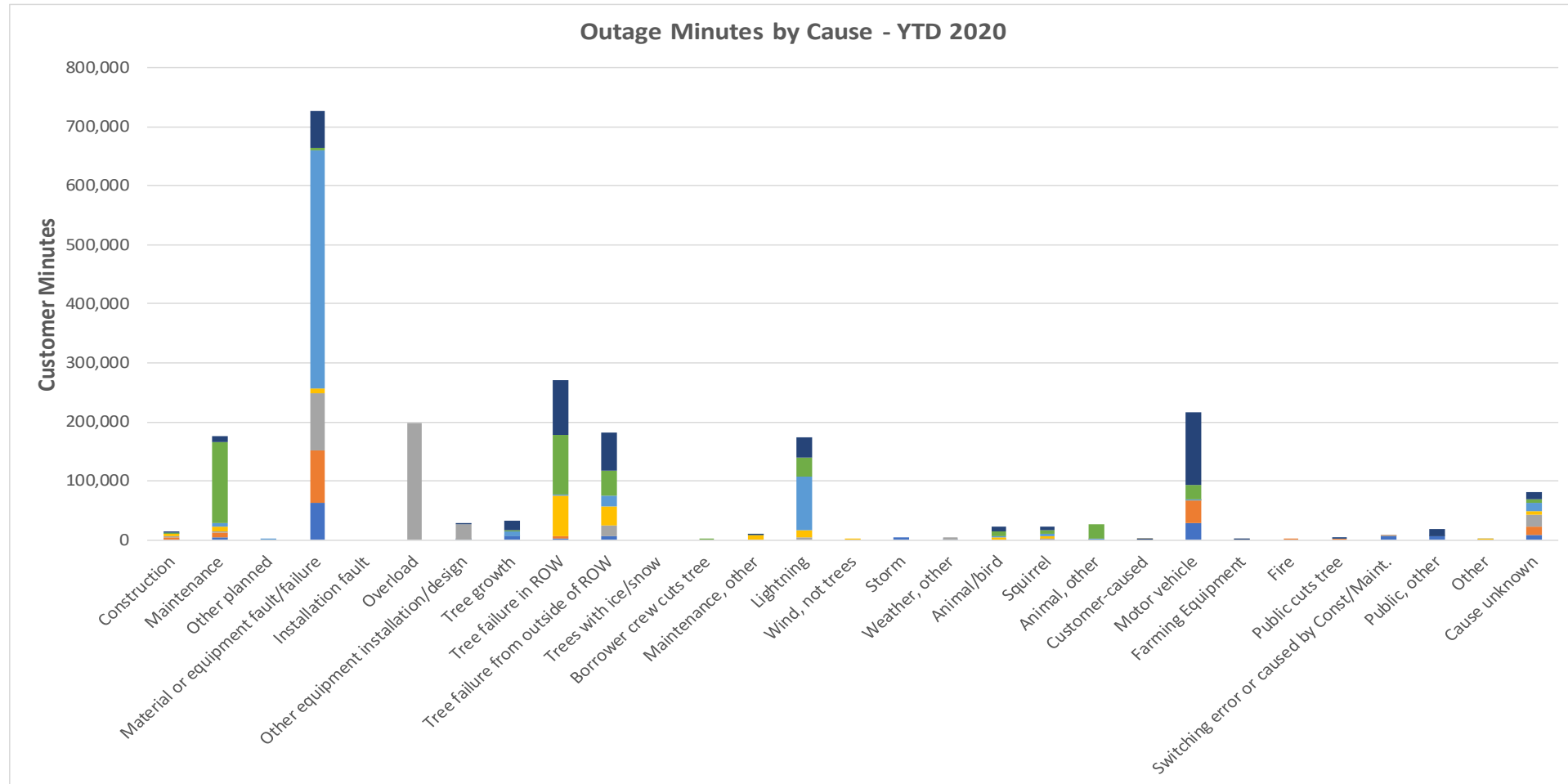
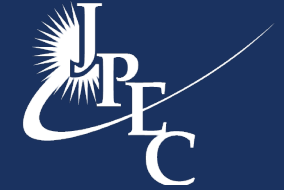
# ENGINEERING & OPERATIONS

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



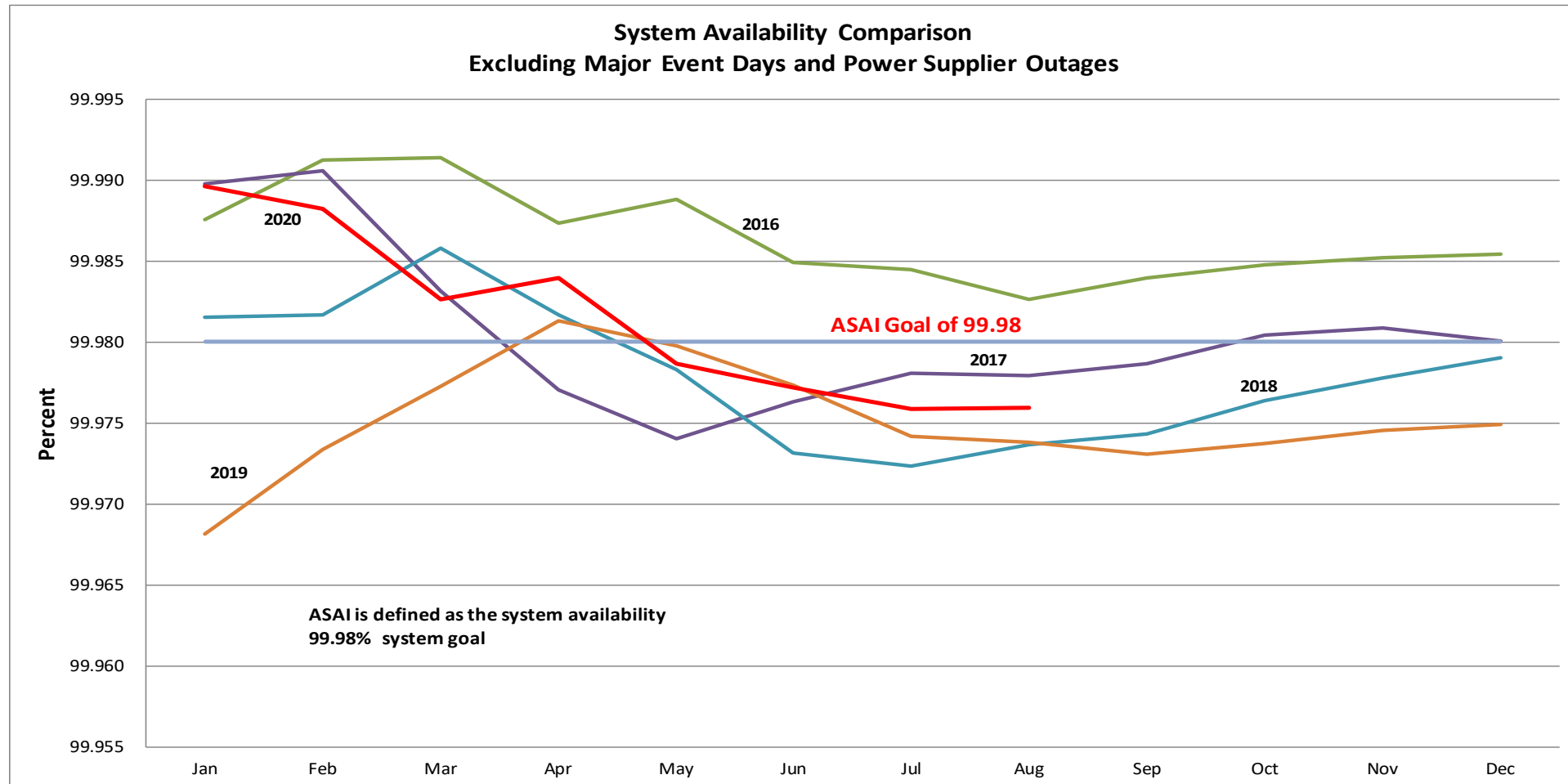
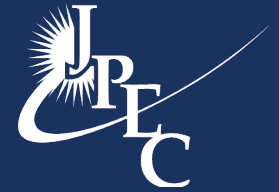
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## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



# ENGINEERING & OPERATIONS

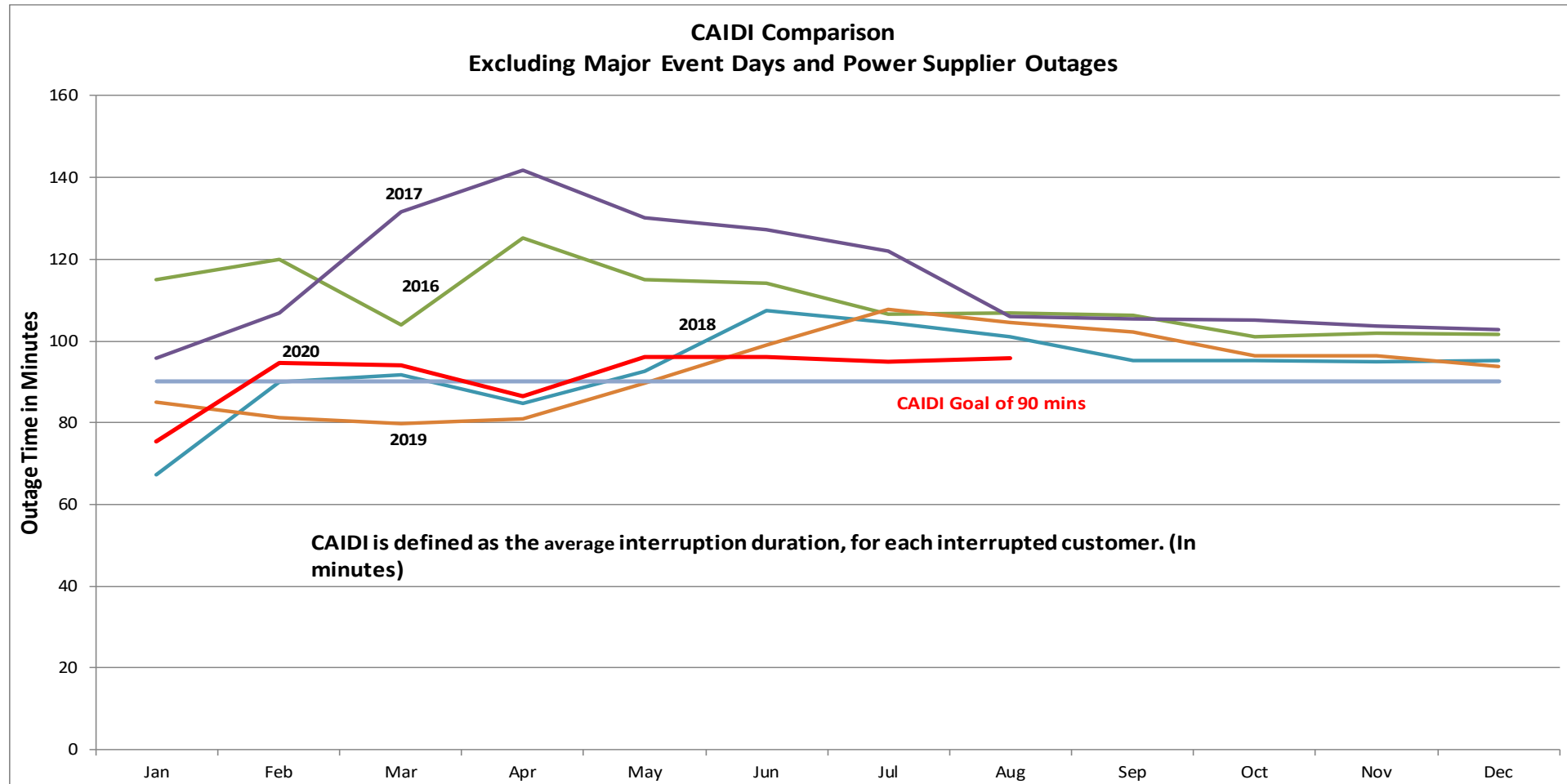
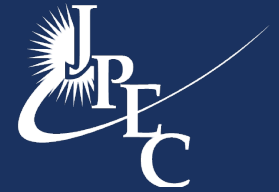
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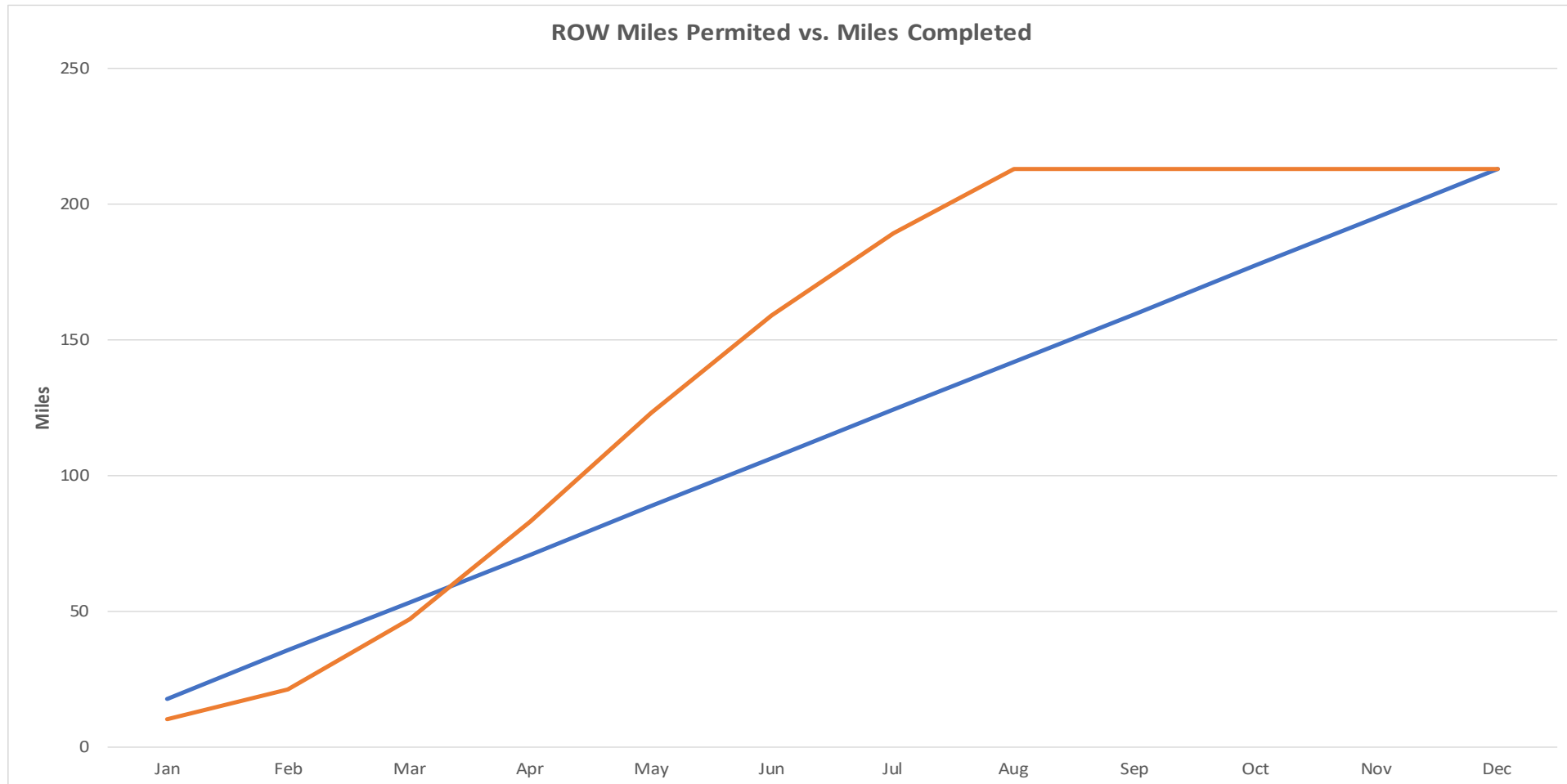
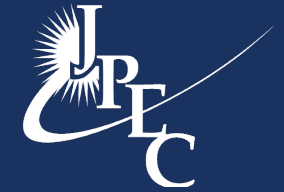
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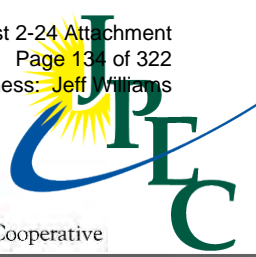
## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



# ENGINEERING & OPERATIONS

STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

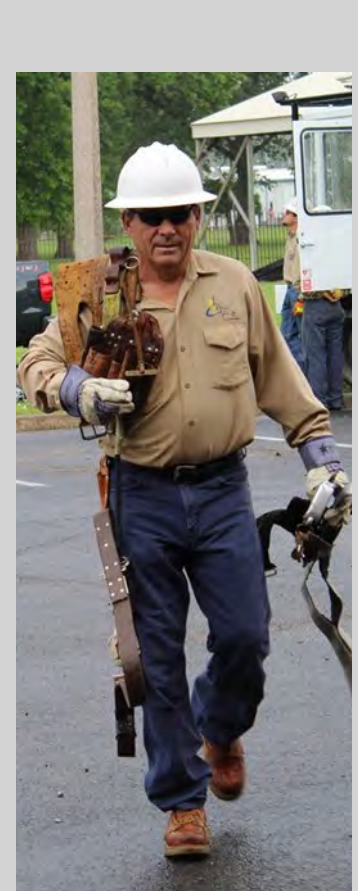




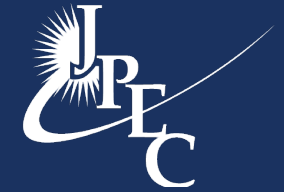
# Jackson Purchase Energy Corporation

Engineering and Operations

November 2020



# JACKSON PURCHASE ENERGY

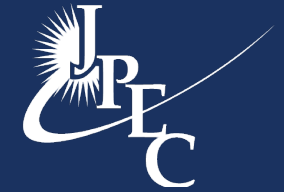


## 2019 Strategic Initiatives

1. **Safety** – instill a culture of safety throughout the entire organization as it applies to cooperatives
2. **Member/Community Relations** – develop strategic communications plan that will increase presence and standing within the communities we serve and keep members better informed
3. **Facilities** – evaluate future options for office and warehouse space
4. **System Operations and Member Support Efficiencies** – continue to make improvements to system reliability and maximize the efficient use of the cooperative's assets
5. **Economic Development** – determine how the cooperative may be able to aid in local economic development.

# ENGINEERING & OPERATIONS

STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

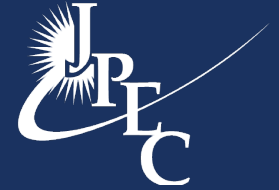


## CWP:

- Ledbetter Bridge Wire & Fiber has been completed. Groves is scheduled to complete the McCracken Co line upgrades by November 13<sup>th</sup>.
- Groves has completed the line move for the Smithland Bridge project
- For the month of September, 224 work orders were closed at a total cost of \$2,100,278.43. Of those, 55 were categorized “New Construction” at an average cost of \$2,779.36.
  - Note: Work Order 19007539 (Kansas Substation Upgrade) had a total cost of \$1,614,652.99.

# ENGINEERING & OPERATIONS

STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



## **SUBSTATIONS:**

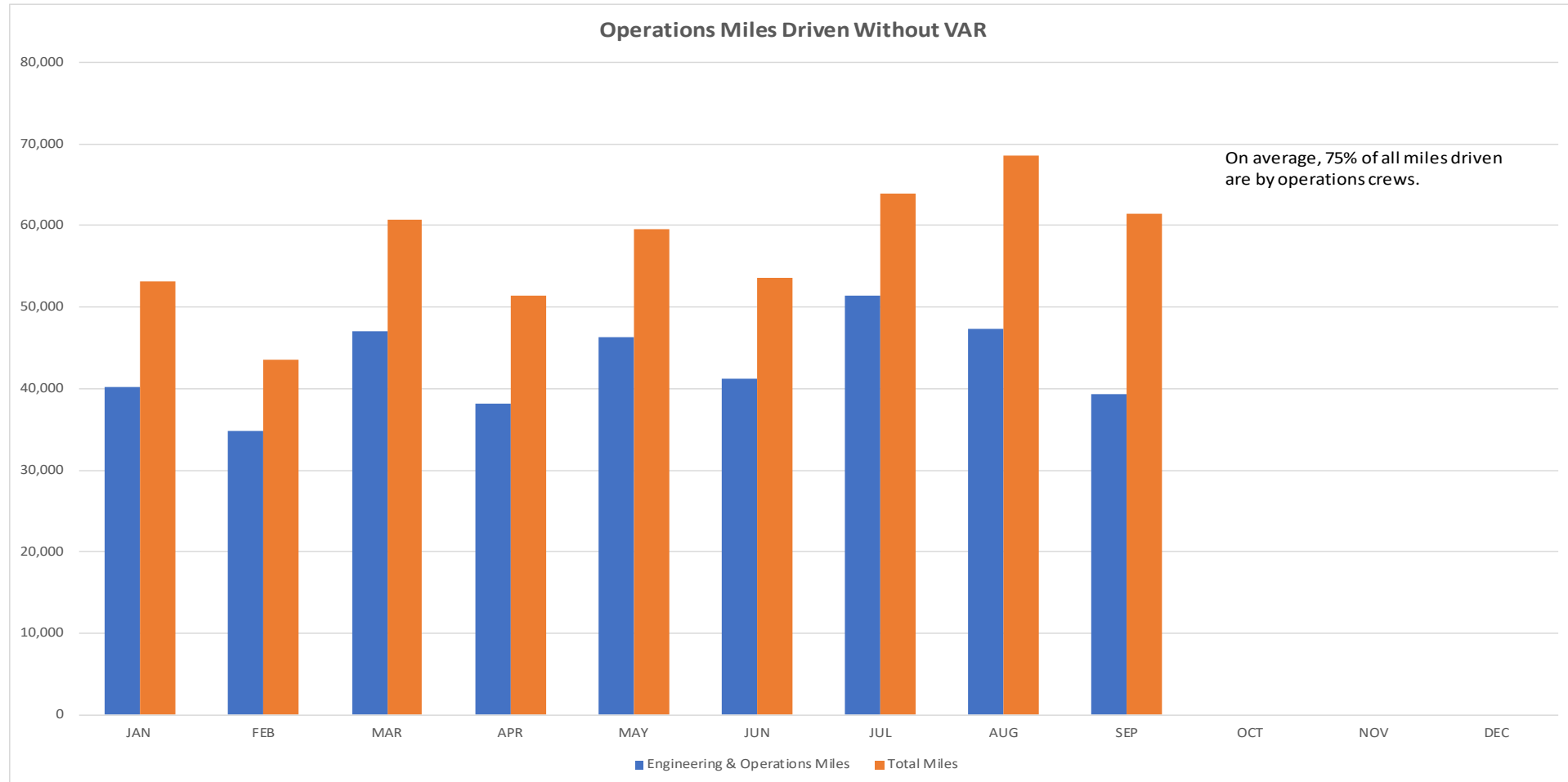
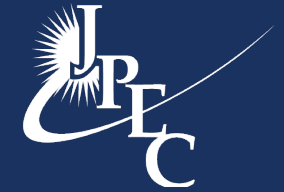
- Freemont substation is offline to receive new transformer 11/12
- Two subs left to label and number by the end of the year
- The Totals for the Rural System were:
  - Rural System Peak (9/10 @ 5pm) ..... 120,548 kW
  - Total Rural System Energy Usage ..... 47,871,490 kWh

## **DVR SYSTEM OPERATIONS/AMI INTERFACE:**

- Estimated savings for June was \$27,367.

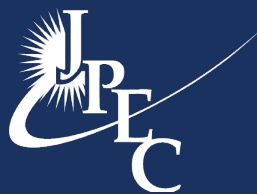
# ENGINEERING & OPERATIONS

## STRATEGIC INITIATIVE I – SAFETY



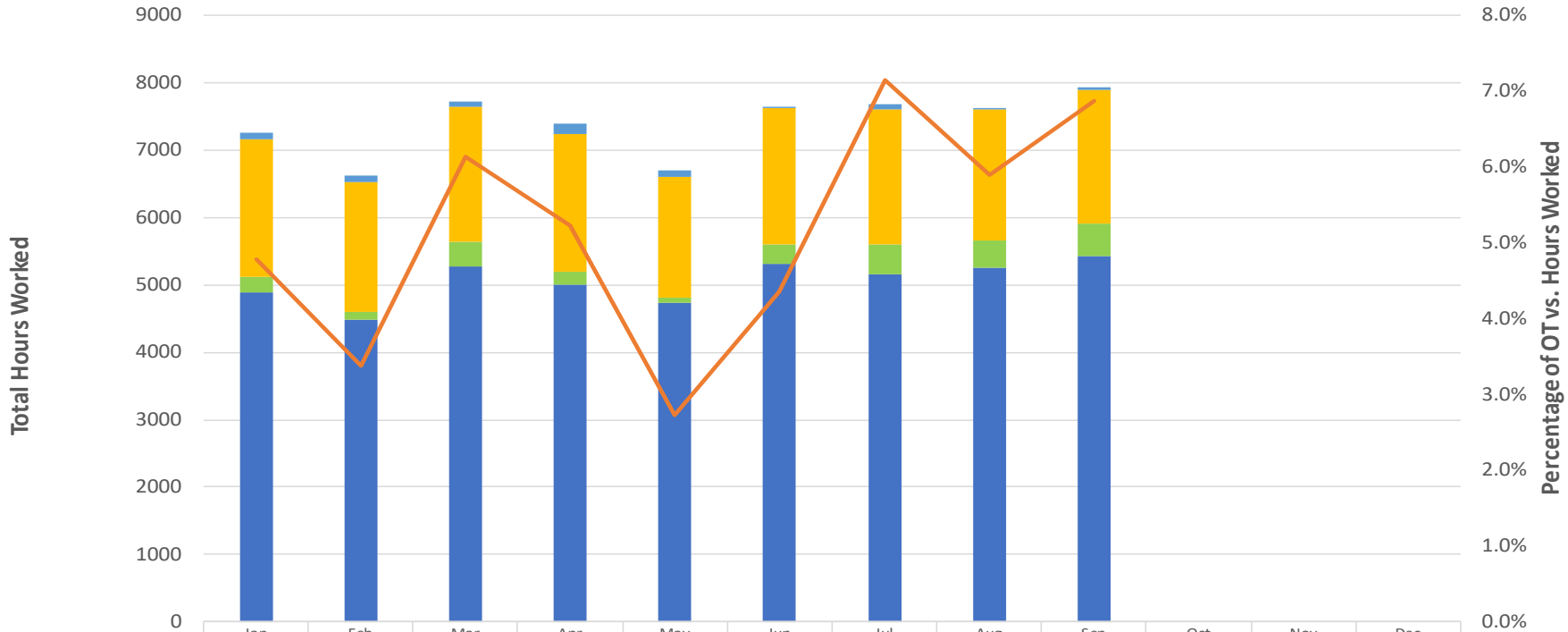
# ENGINEERING & OPERATIONS

## STRATEGIC INITIATIVE I – SAFETY



**E&O Hours Worked and Percentage of Overtime in Relation to Hours Worked**

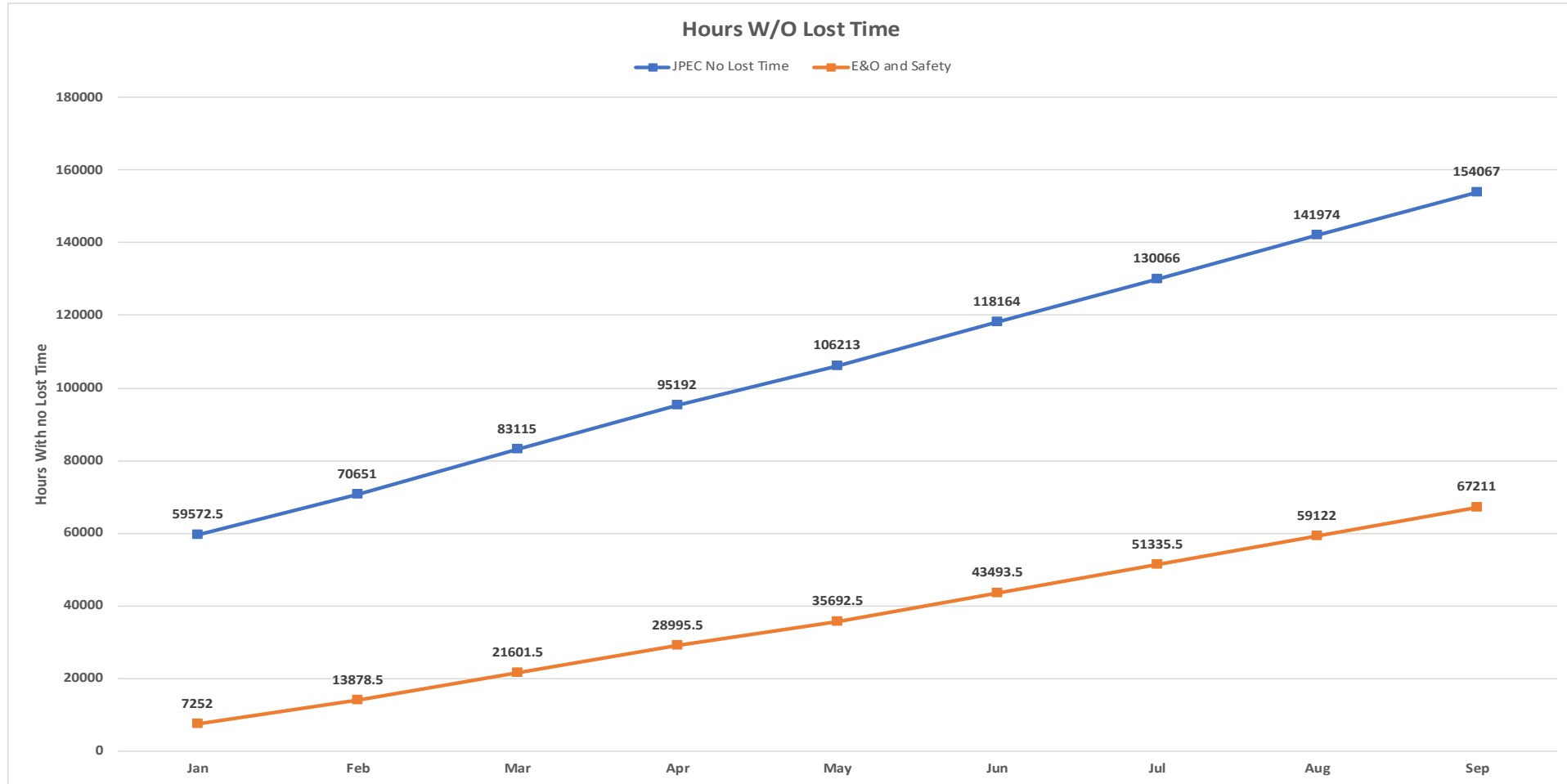
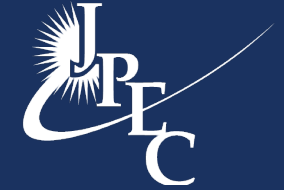
\*Report is Based on Pay Period and May Not Represent the Calendar Month





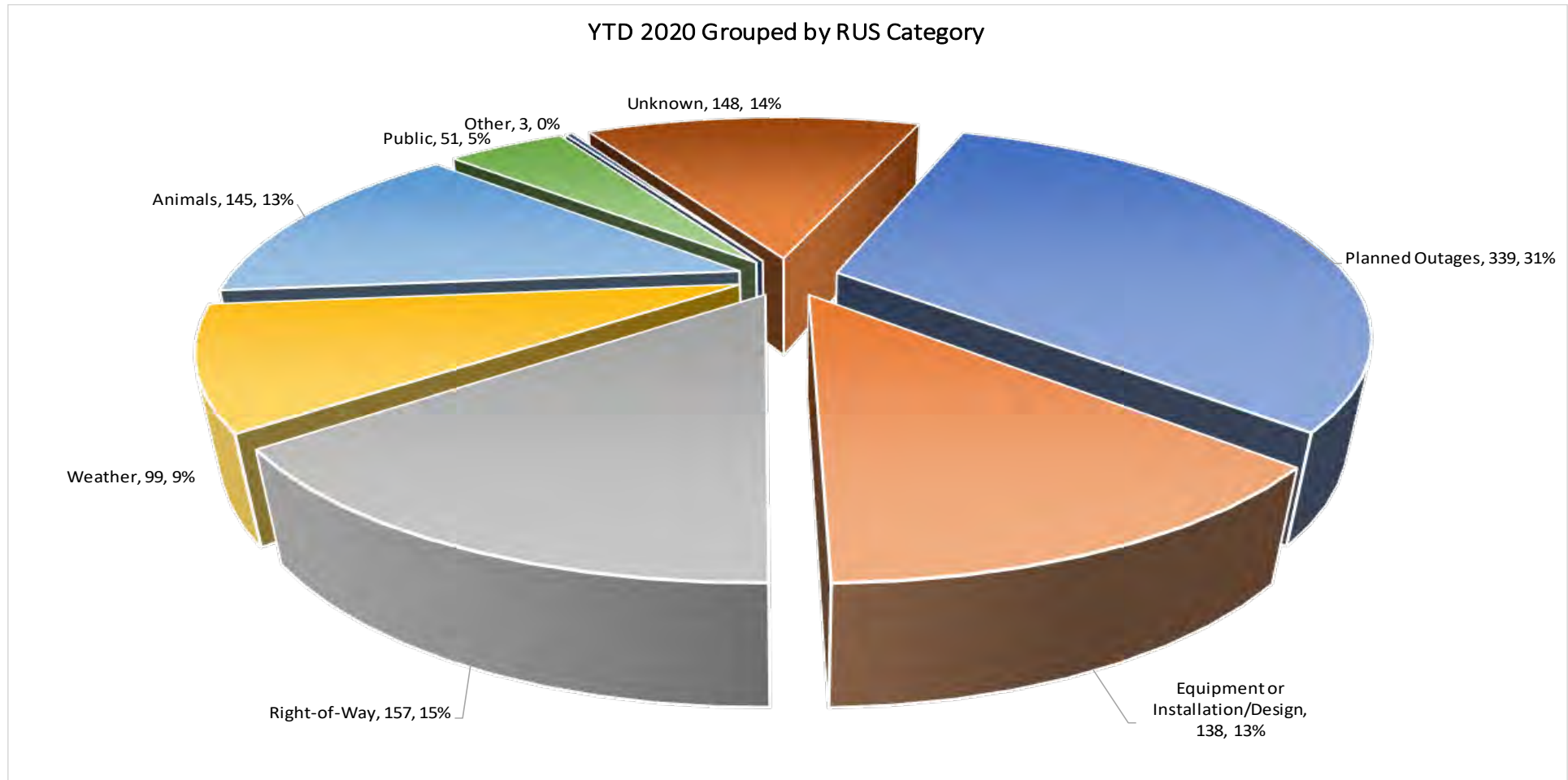
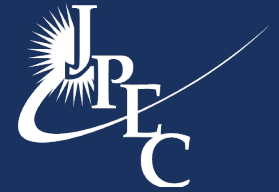
# ENGINEERING & OPERATIONS

## STRATEGIC INITIATIVE I – SAFETY



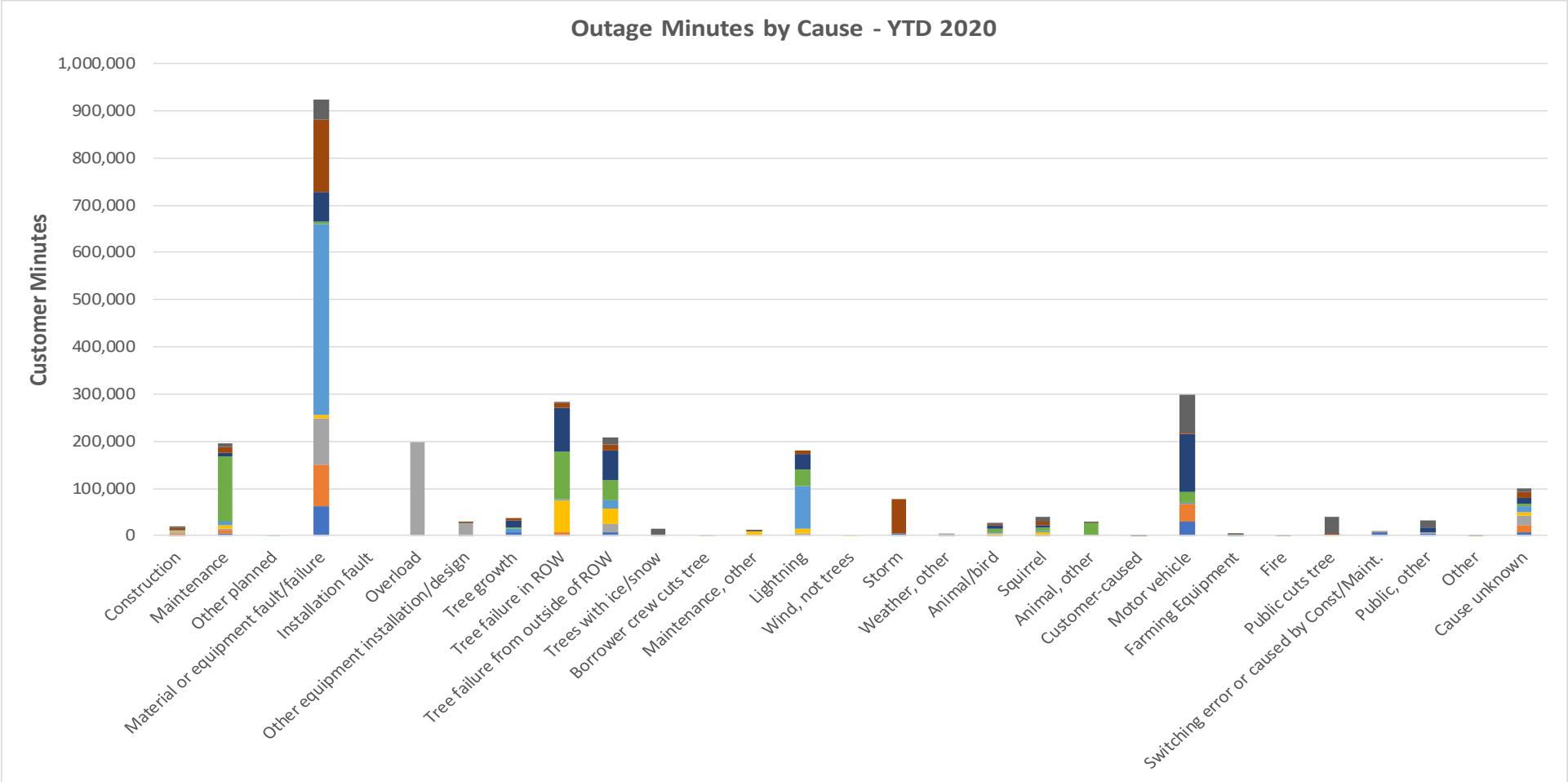
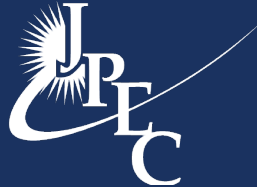
# ENGINEERING & OPERATIONS

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



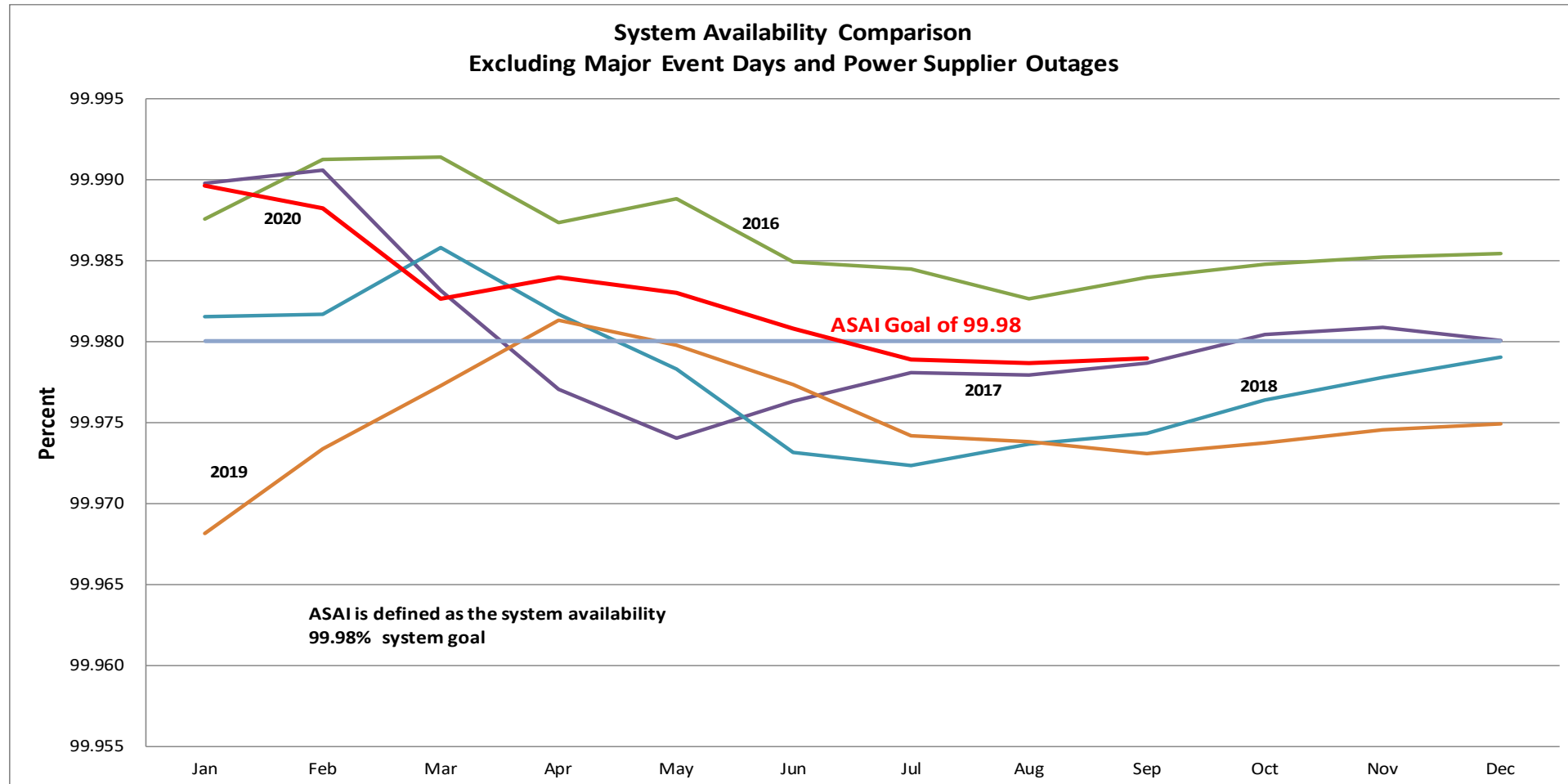
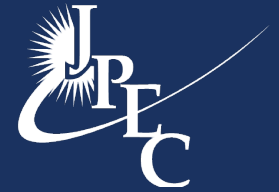
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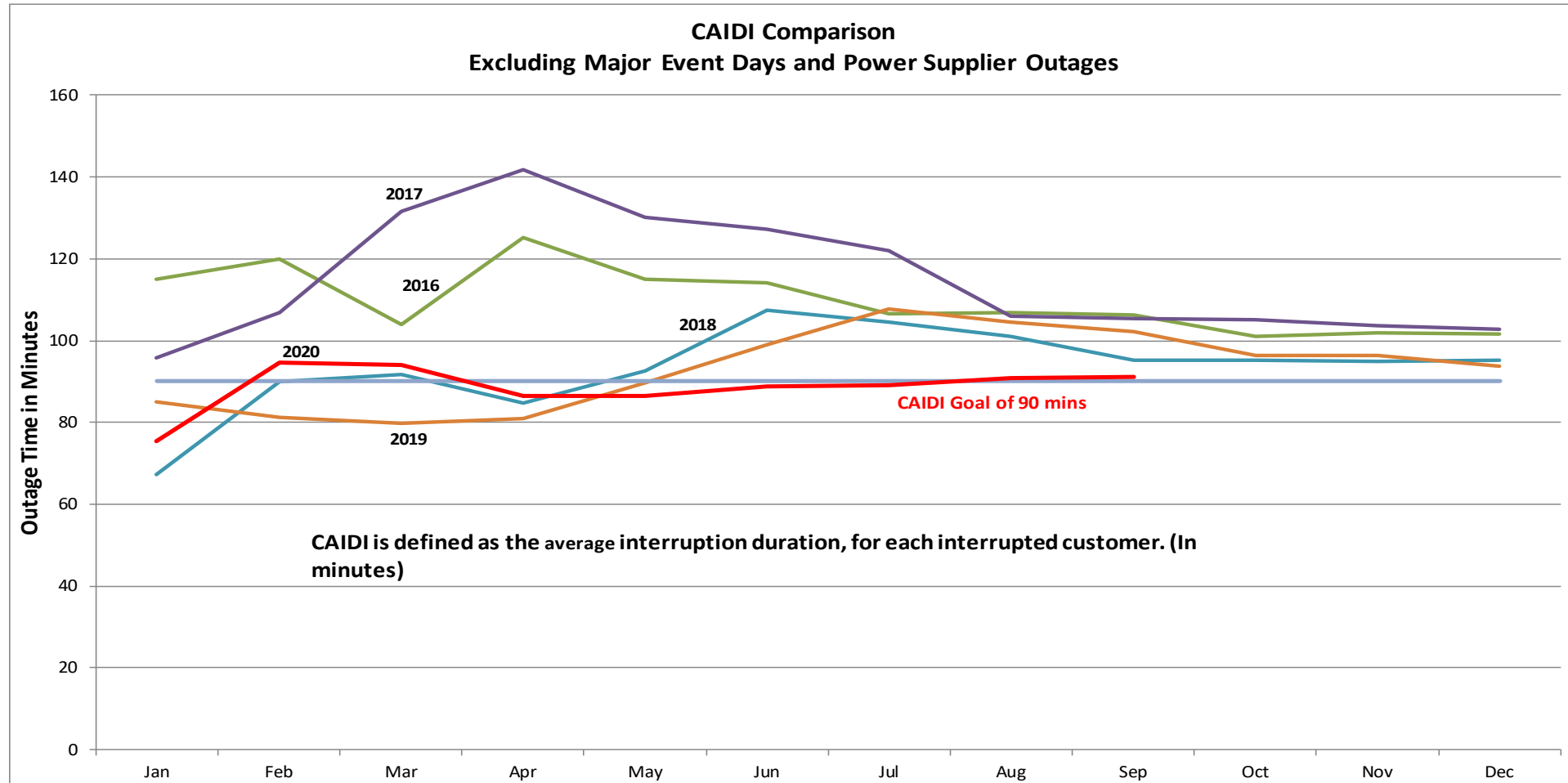
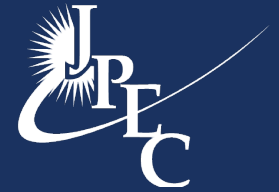
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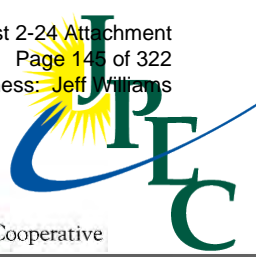
## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



# ENGINEERING & OPERATIONS

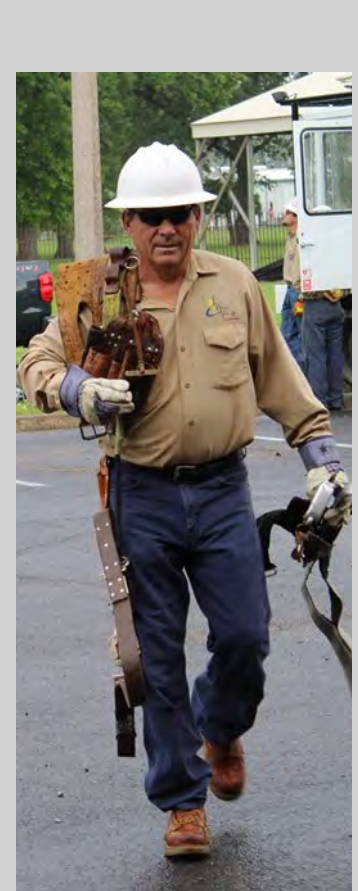
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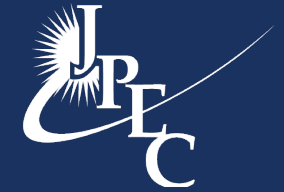


# Jackson Purchase Energy Corporation

Engineering and Operations  
December 2020



# JACKSON PURCHASE ENERGY

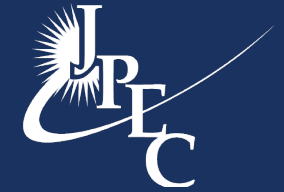


## 2019 Strategic Initiatives

1. **Safety** – instill a culture of safety throughout the entire organization as it applies to cooperatives
2. **Member/Community Relations** – develop strategic communications plan that will increase presence and standing within the communities we serve and keep members better informed
3. **Facilities** – evaluate future options for office and warehouse space
4. **System Operations and Member Support Efficiencies** – continue to make improvements to system reliability and maximize the efficient use of the cooperative's assets
5. **Economic Development** – determine how the cooperative may be able to aid in local economic development.

# ENGINEERING & OPERATIONS

STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



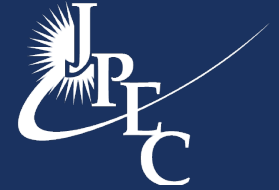
## CWP:

- The tie line between Reidland and Ledbetter was completed and put in service on Nov. 25<sup>th</sup>.
- Groves is working on the road widening project along US 62 between Olivet Church Rd and Lamond Purdue Rd.
- For the month of October, 200 work orders were closed at a total cost of \$499,666.63. Of those, 42 were categorized “New Construction” at an average cost of \$2,247.68.



# ENGINEERING & OPERATIONS

STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

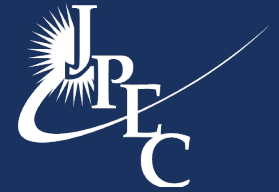


## SUBSTATIONS:

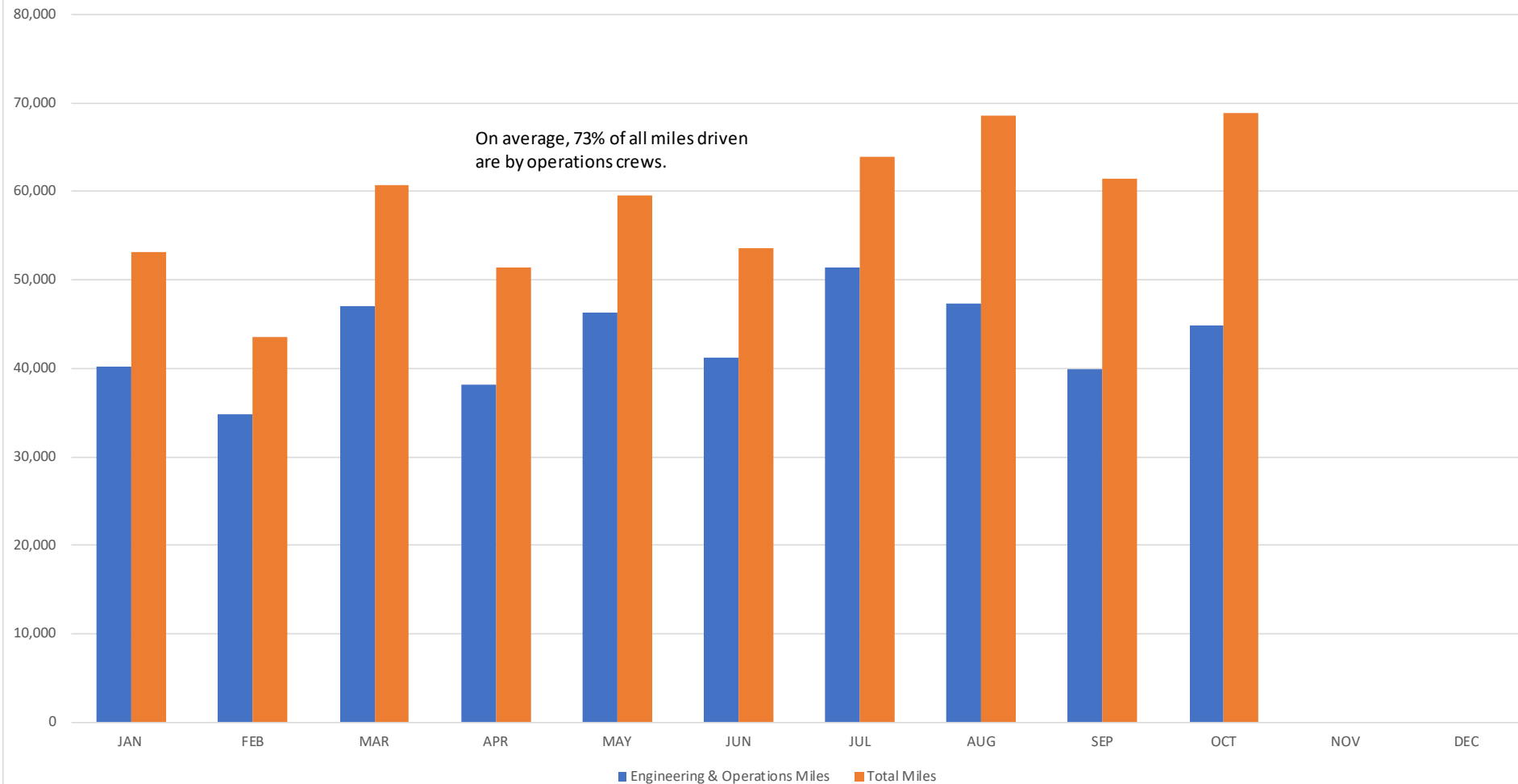
- New transformer was dressed out and energized on 12/2
- Two subs left to label and number by the end of the year
- Relay replacement in Strawberry Hill Sub on 1/5
- The Totals for the Rural System were:
  - Rural System Peak (10/23 @ 2 pm) ..... 76,023 kW
  - Total Rural System Energy Usage ..... 41,570,515 kWh

# ENGINEERING & OPERATIONS

## STRATEGIC INITIATIVE I – SAFETY

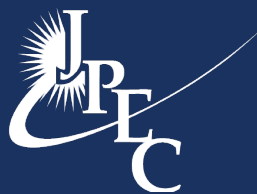


Engineering & Operations Miles Driven Without VAR



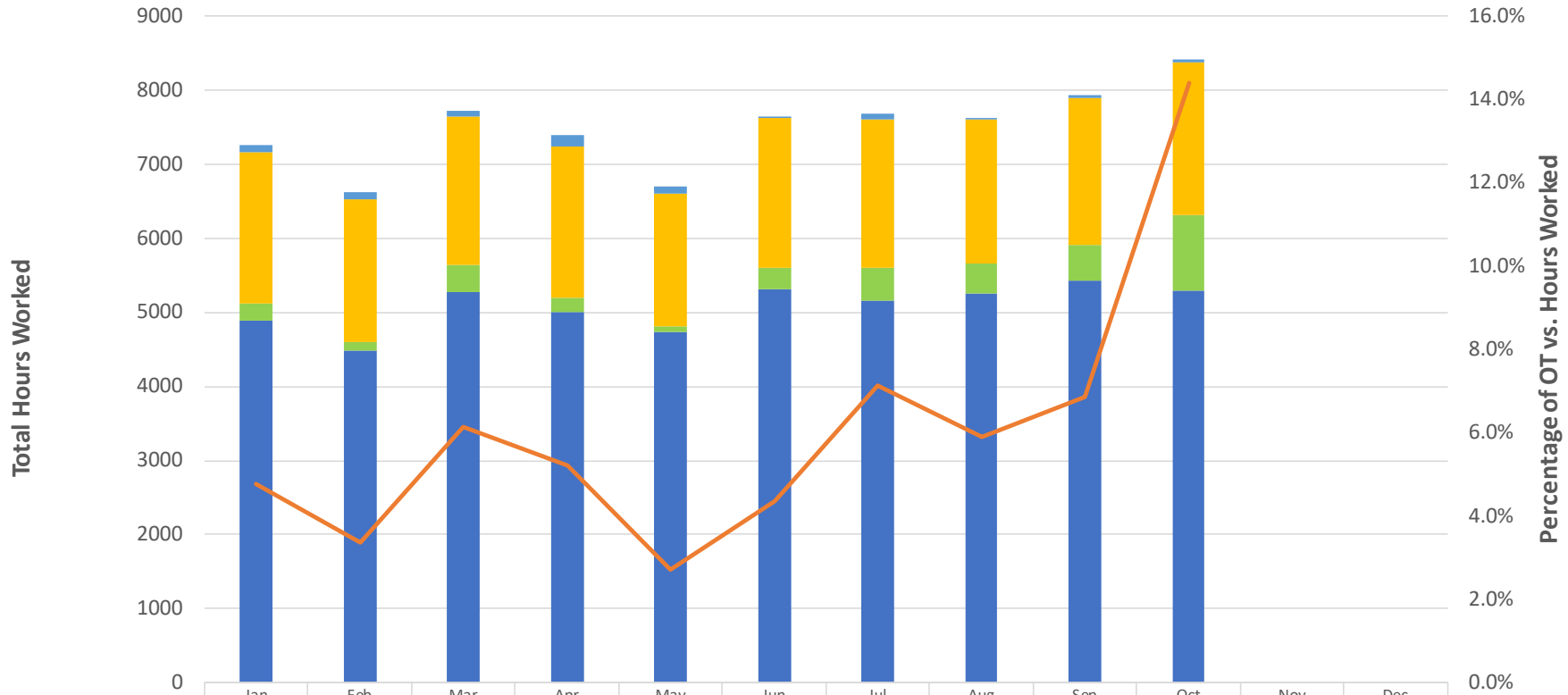
# ENGINEERING & OPERATIONS

## STRATEGIC INITIATIVE I – SAFETY



**E&O Hours Worked and Percentage of Overtime in Relation to Hours Worked**

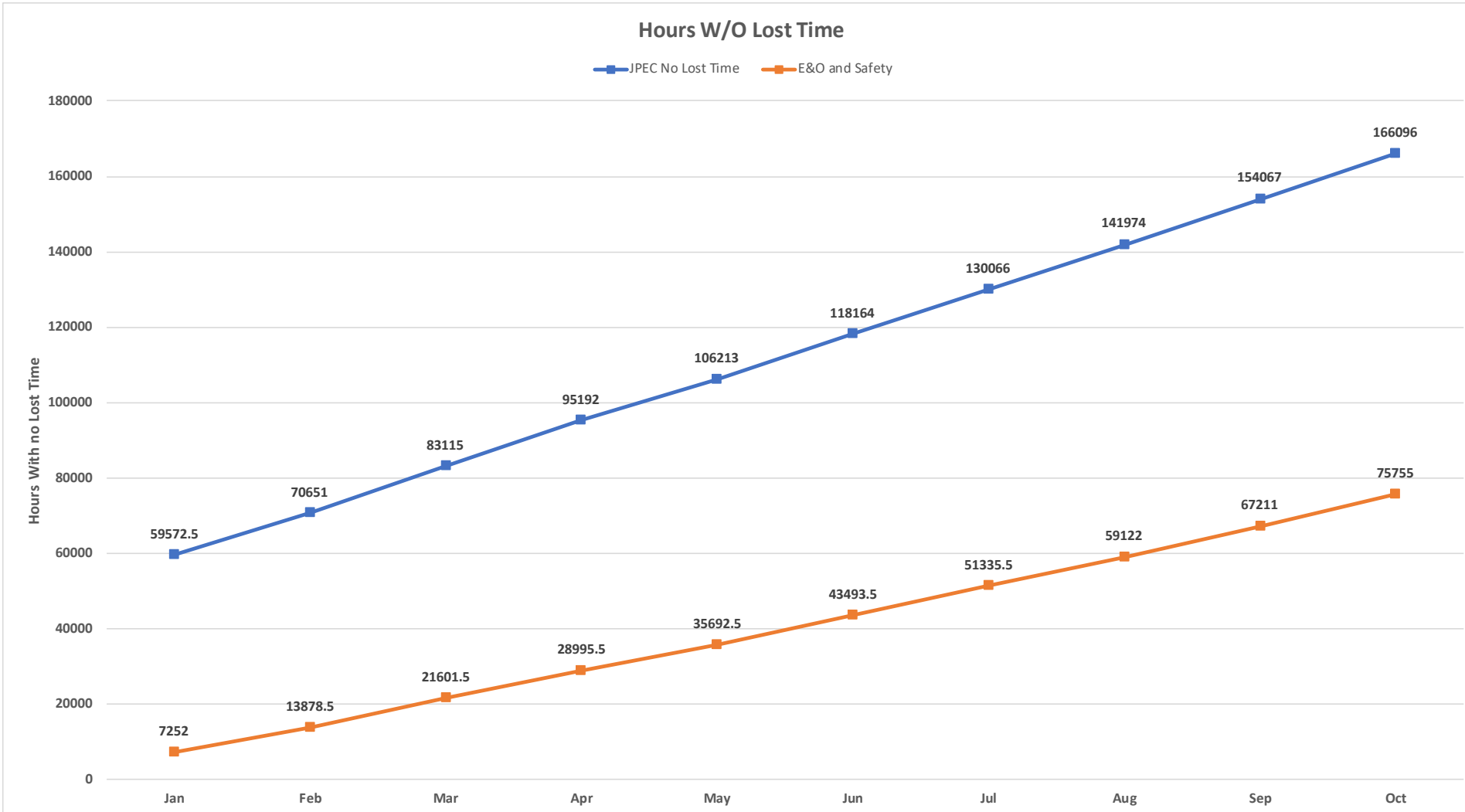
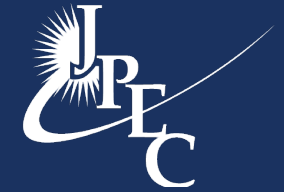
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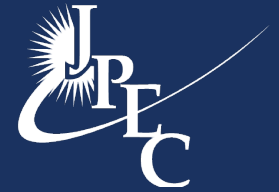
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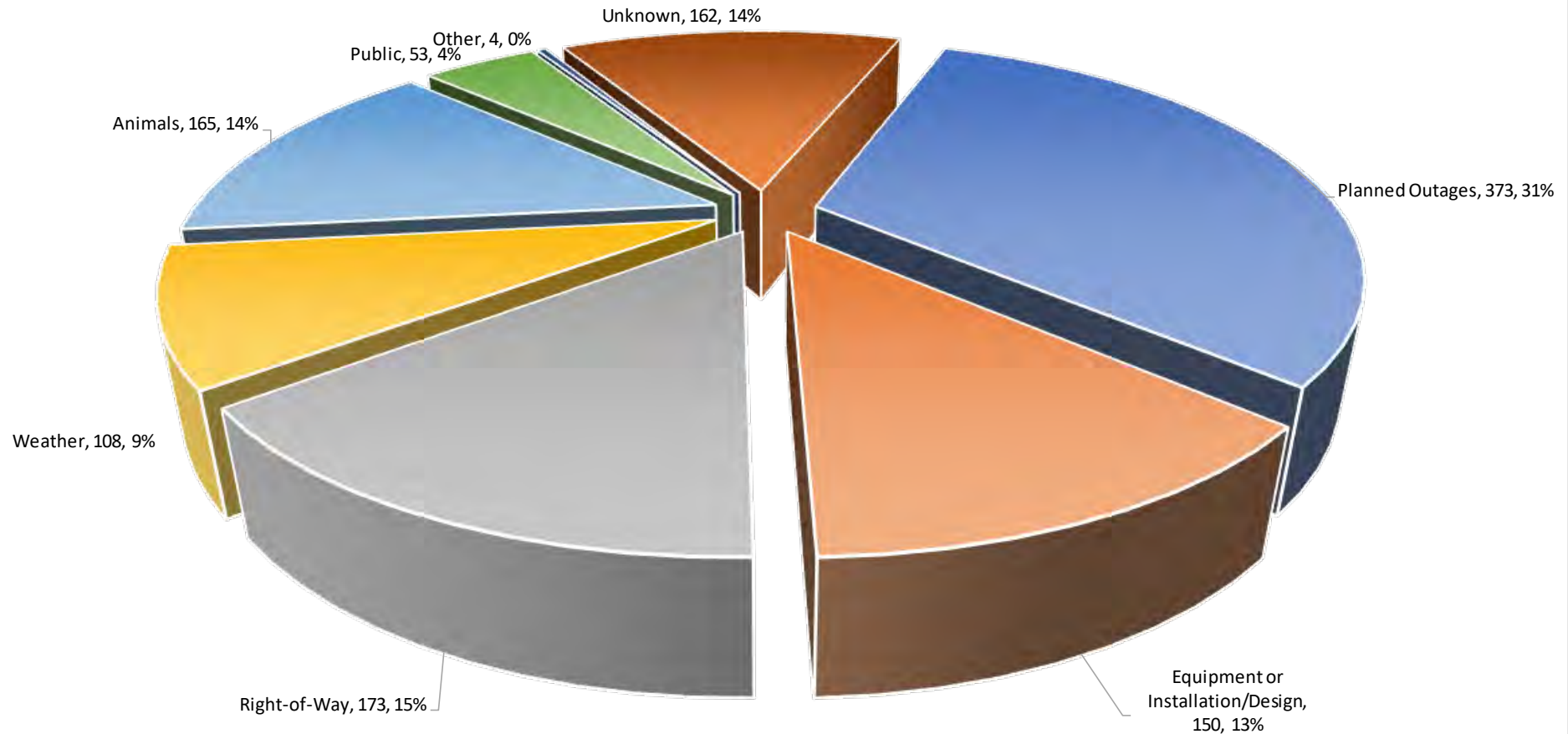


# ENGINEERING & OPERATIONS

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

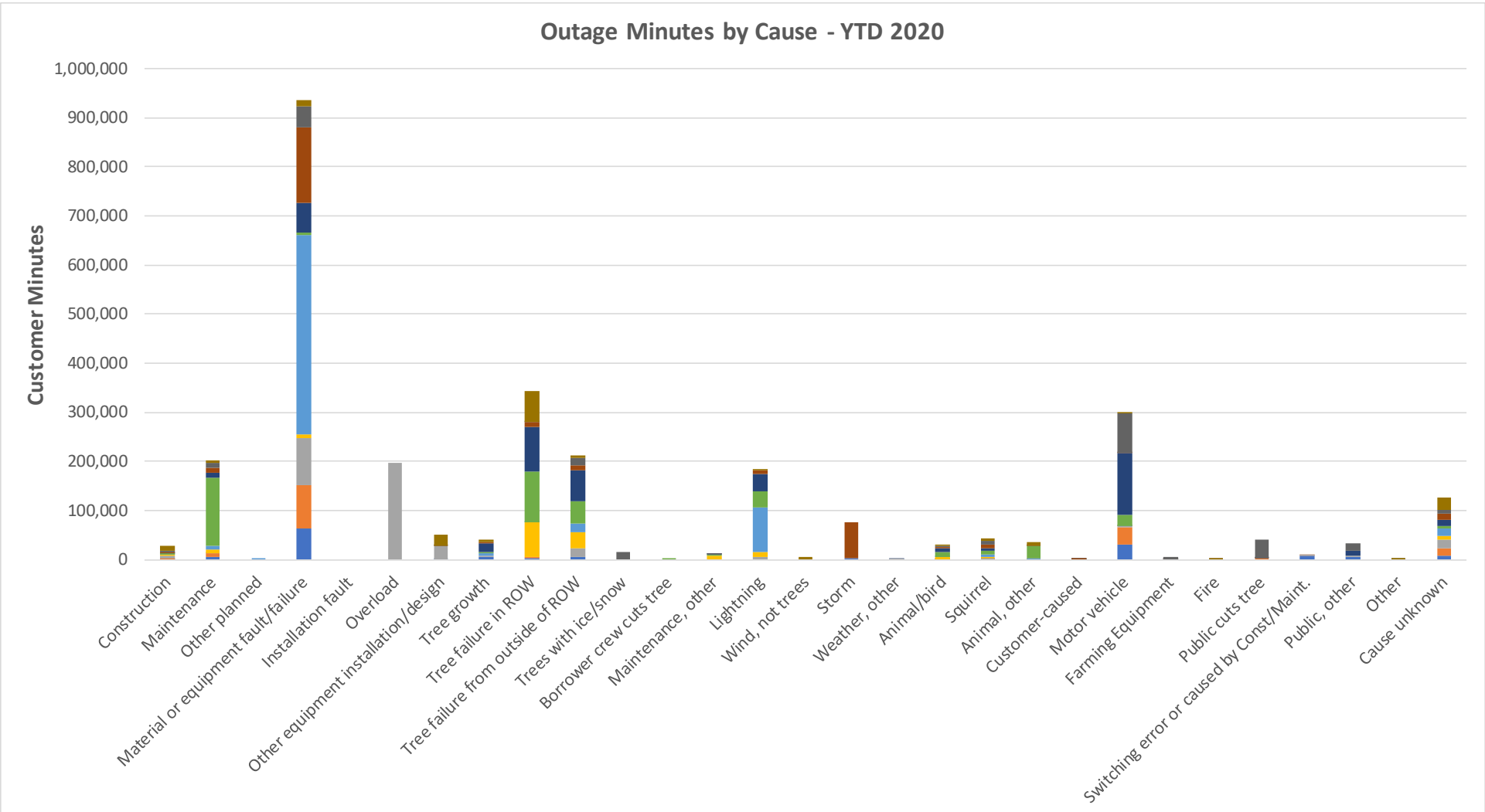
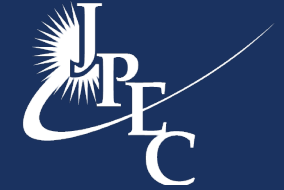


YTD 2020 Grouped by RUS Category



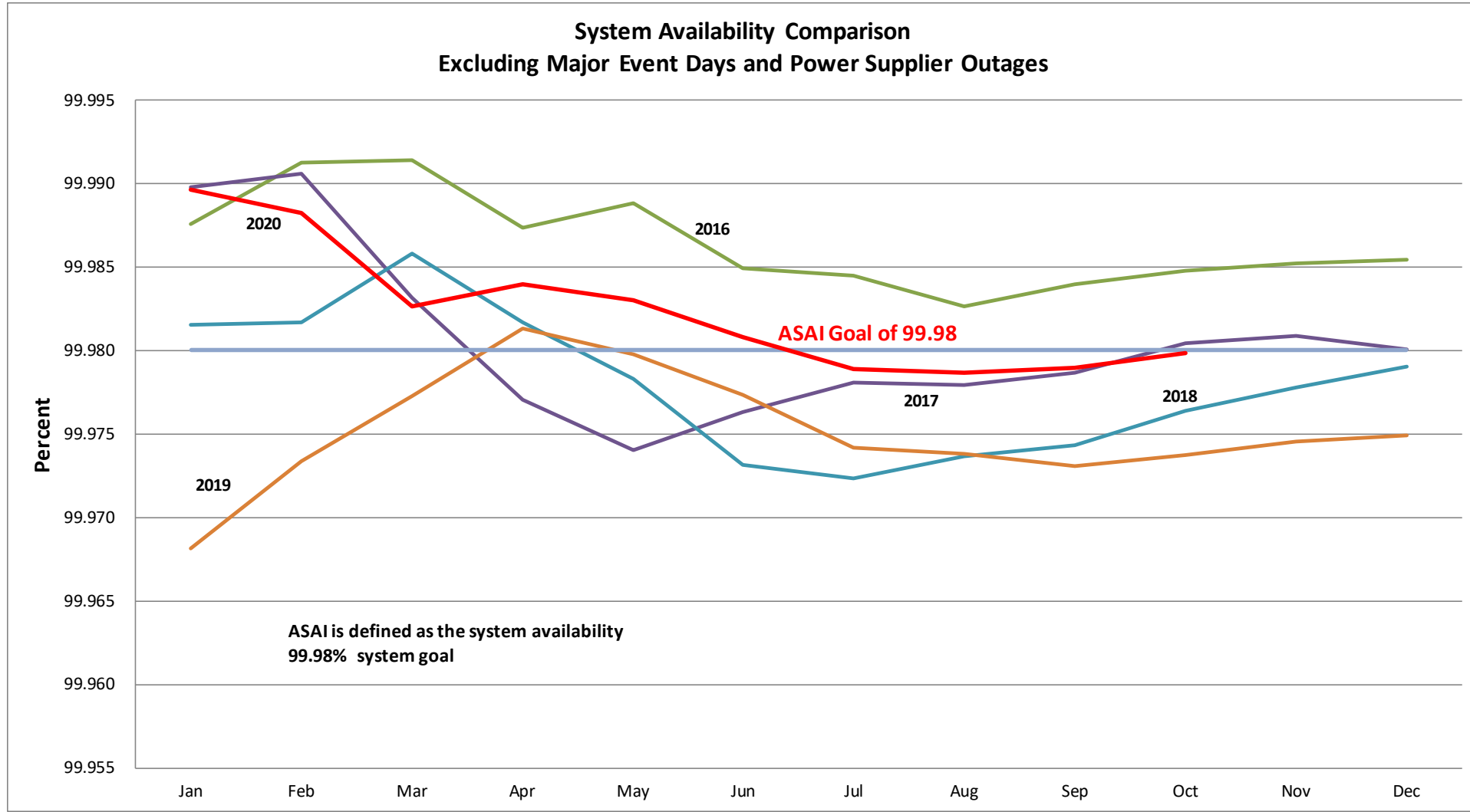
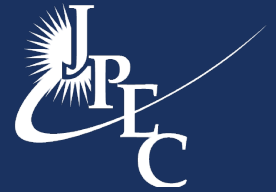
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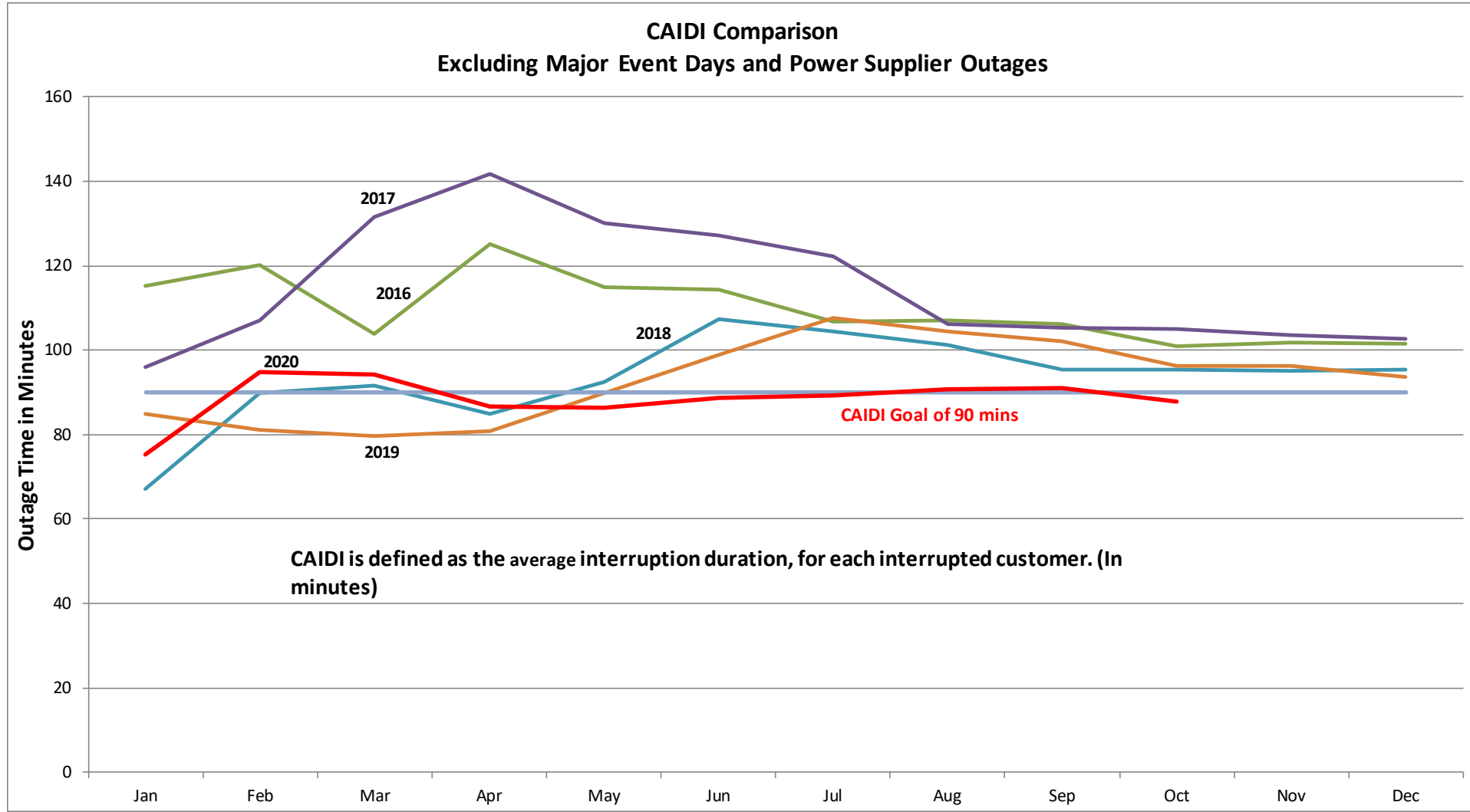
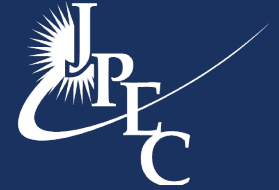
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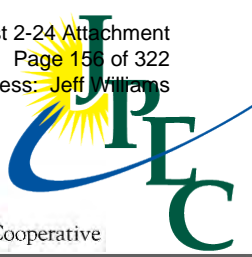


# ENGINEERING & OPERATIONS

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

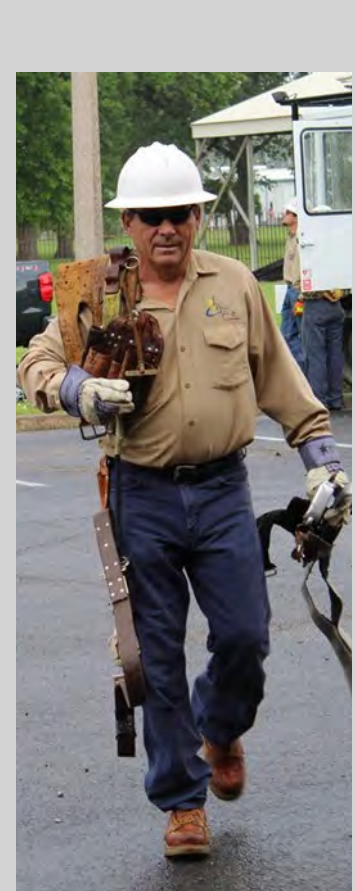




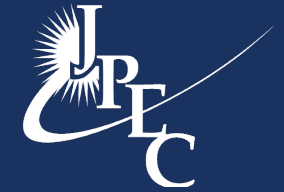


# Jackson Purchase Energy Corporation

Operations & Technical Services  
January 2021



# JACKSON PURCHASE ENERGY

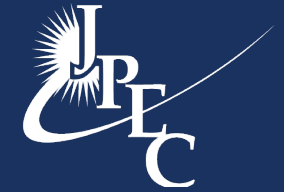


## Strategic Initiatives

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# ENGINEERING & OPERATIONS

STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



## **Staking Training**

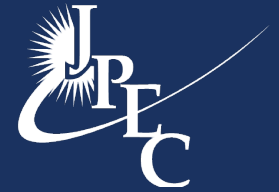
- TVPPA training – Feb 4-5
- Hi-Line Webinars
- Daily work order review

## **Staking Projects:**

- Software Conversion: Re-drawing all jobs drawn in Partner
- Cheddar's – Next Spring, waiting for someone to sign up for service
- Airport terminal, will need to be completed by end of July
- Work Plan jobs for Groves – line relocations, re-phasing, IP-3P conversions
- Pole changes for Elliot
- 2 new subdivisions – Grand Rivers

# ENGINEERING & OPERATIONS

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



### Staking Department Data, 2020 Wrap-up

- Engineering Advice tickets: 164
- New Services: 440
- New Light Connect: 127

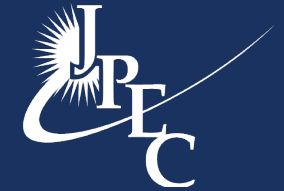
#### Daily Work Order Approvals and Returns 1/6/2021

Note: Backlog As-Builts (BAB) are as-builts that are turned in that have a crew copy from Partner but an as-built from MapWise.

Number	WO	N - New; AB - AsBuilt; BAB - Backlog AsBuilt	Type	Staker	Approved Date	Returned with Questions Date
1	17017543	BAB	NESC Inspection	RB	01/06/21	n/a
2	20046450	AB	Light Exchange	RB	01/06/21	01/06/21
3	20046410	AB	Light Exchange	RB	01/06/21	n/a
4	20047729	AB	Misc SO for E&O	RB	01/06/21	n/a

## TECHNICAL SERVICES

### MONTHLY OVERVIEW

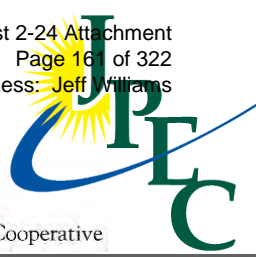


### Projects

- Substation Network Equipment Upgrade
- SCADA systems upgrade
- New HQ communication transition
- JPEC/BREC Fiber Buildout
- 2021 JPEC/BREC Fiber

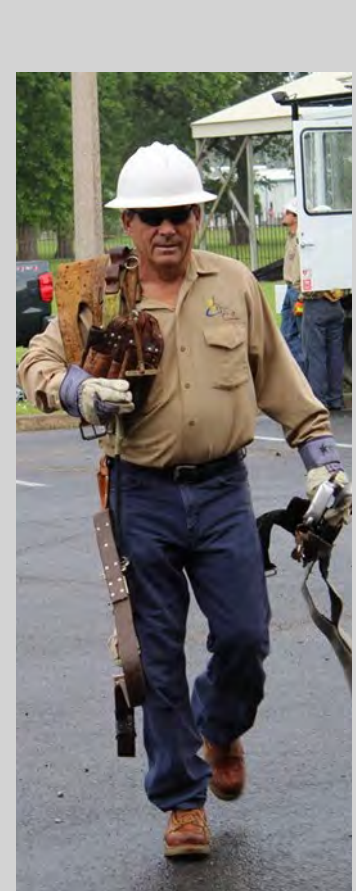
### New Headquarters

- Furniture selection
- Monthly update at workshop
- Occupancy May 2021

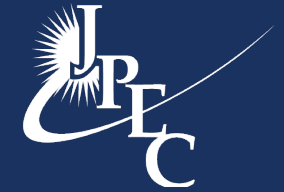


# Jackson Purchase Energy Corporation

Operation & Technical Services  
February 2021



# JACKSON PURCHASE ENERGY

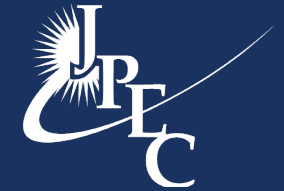


## Strategic Initiatives

1. **Safety** – instill a culture of safety throughout the entire organization as it applies to cooperatives
2. **Member/Community Relations** – develop strategic communications plan that will increase presence and standing within the communities we serve and keep members better informed
3. **Facilities** – evaluate future options for office and warehouse space
4. **System Operations and Member Support Efficiencies** – continue to make improvements to system reliability and maximize the efficient use of the cooperative's assets
5. **Economic Development** – determine how the cooperative may be able to aid in local economic development.

# OPERATIONS

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



Strategic Initiative 4

### 2020 ROW Summary

Circuit	Substation	Mileage	The Halter Group		Townsend	
			Per Circuit	Per Mile	Per Circuit	Per Mile
Hampton - 14214	Burna	10.15		\$ -	\$ 60,779.00	\$ 5,988.08
Smithland - 14254	Burna	39.51	\$ 241,762.85	\$ 6,119.03		\$ -
Salem - 14244	Burna	65.54	\$ 384,911.56	\$ 5,872.93		\$ -
Lovelaceville - 4902	Lovelaceville	36.88		\$ -	\$ 287,303.00	\$ 7,790.21
Blandville - 4901	Lovelaceville	15.24		\$ -	\$ 57,431.00	\$ 3,768.44
Cunningham - 4903	Lovelaceville	45.36		\$ -	\$ 172,543.00	\$ 3,803.86
		212.68	\$ 626,674.41	\$ 5,965.49	\$ 578,056.00	\$ 5,370.77

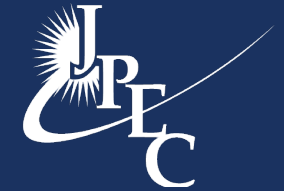
	2019 Budgeted	2019 Actual	2020
Total Circuit Clearance Costs	\$ 1,007,009.42	\$ 665,360.83	\$ 1,204,730.41
Total Cost per Mile	\$ 2,282.43	\$ 2,429.47	\$ 5,664.52

**Percent Increase from 2019 to 2020** **148%**



# OPERATIONS

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



*Strategic Initiative 4*

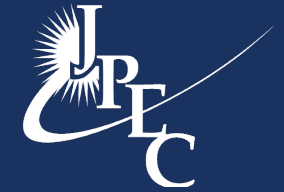
### 2021 ROW PLAN

		Circuit	Take Downs	Total
Little Union	Airport	\$129,791.00	\$21,677.75	\$151,468.75
Krebs	Clinton Rd	\$337,364.00	\$79,766.75	\$417,130.75
New York	Wickliffe	\$400,124.00	\$52,587.00	\$452,711.00
			<b>Total</b>	<b>\$1,021,310.50</b>
			<b>Budget</b>	<b>\$1,490,840.00</b>
<b>Cost Per Mile</b>	<b>\$12,766.38</b>		<b>Difference</b>	<b>469,529.50</b>

- Approximately 80 Circuit Miles
- As the budget allows we will increase circuit cutting
- Short term contract with Townsend
  
- 2 Townsend hourly crews
- Spray all substations
  
- We will begin scouting for 2022 circuits
- Working with BREC on ROW plan

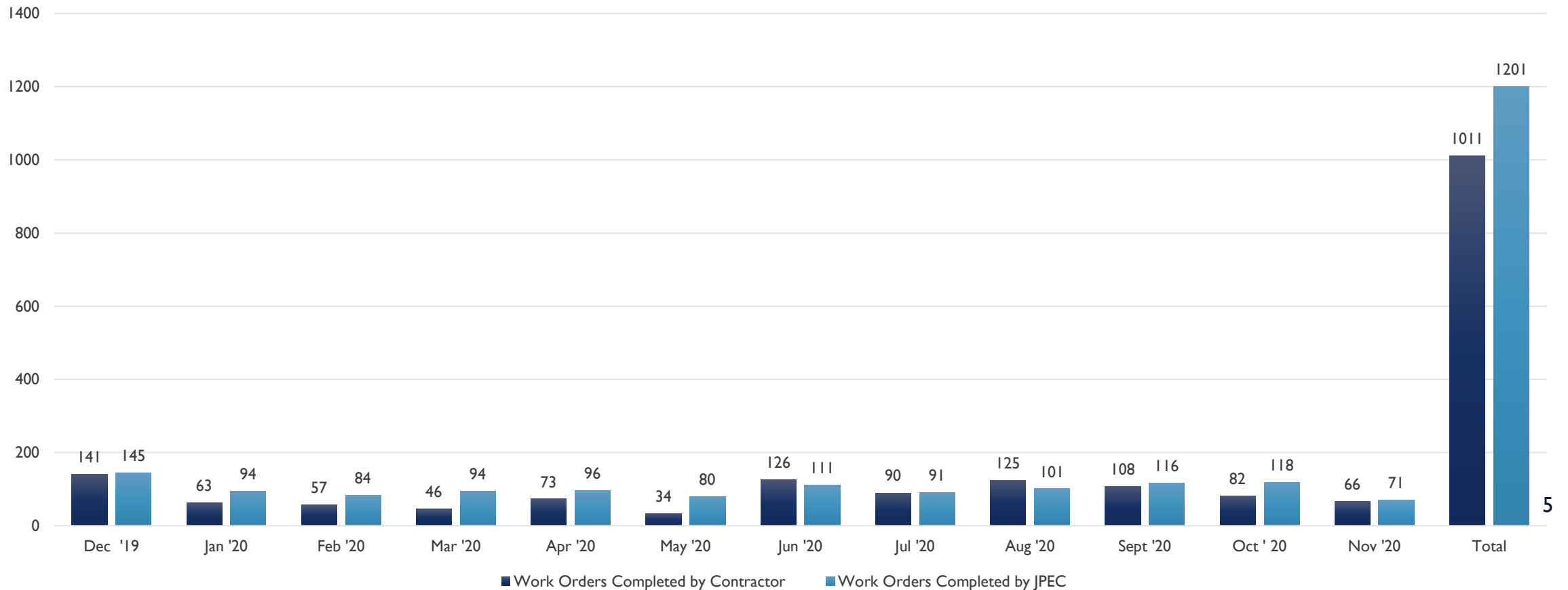
# OPERATIONS

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



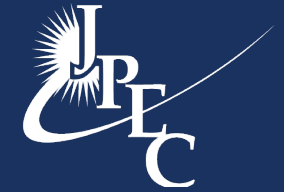
Strategic Initiative 4

### Work Orders 2020



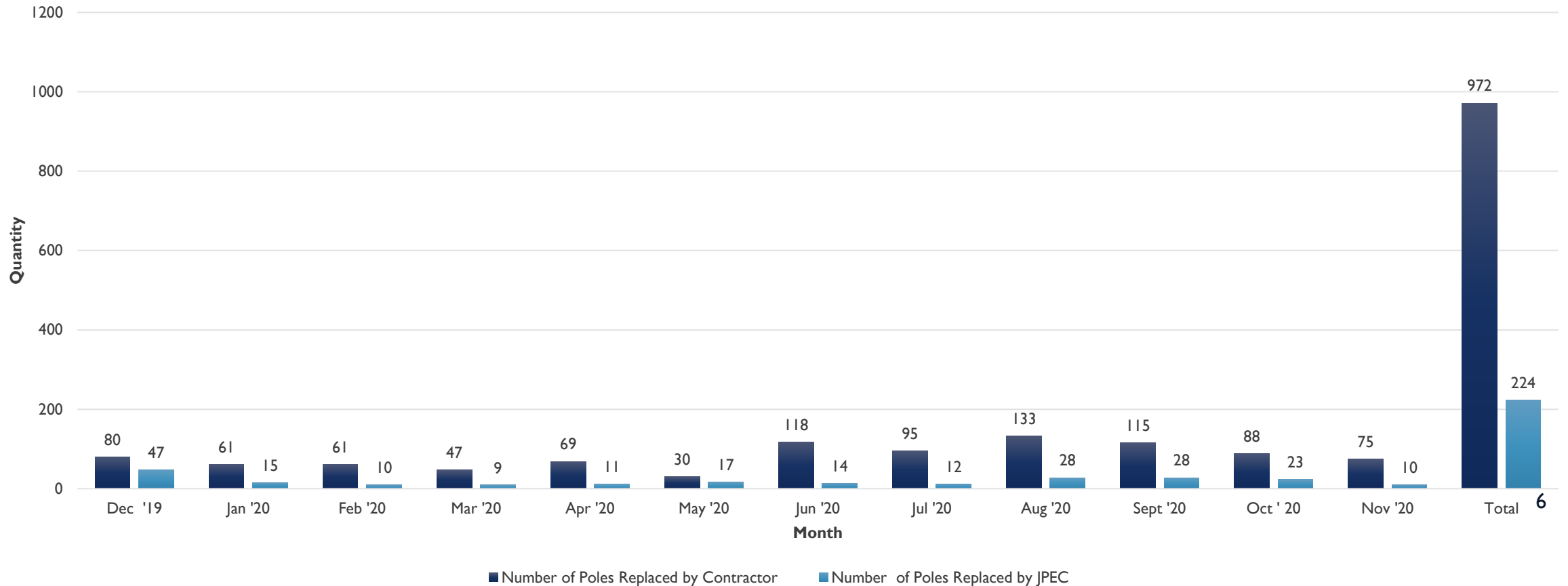
# OPERATIONS

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



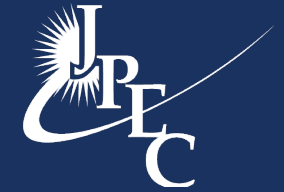
Strategic Initiative 4

### Number of Poles Replaced



# OPERATIONS/RELIABILITY

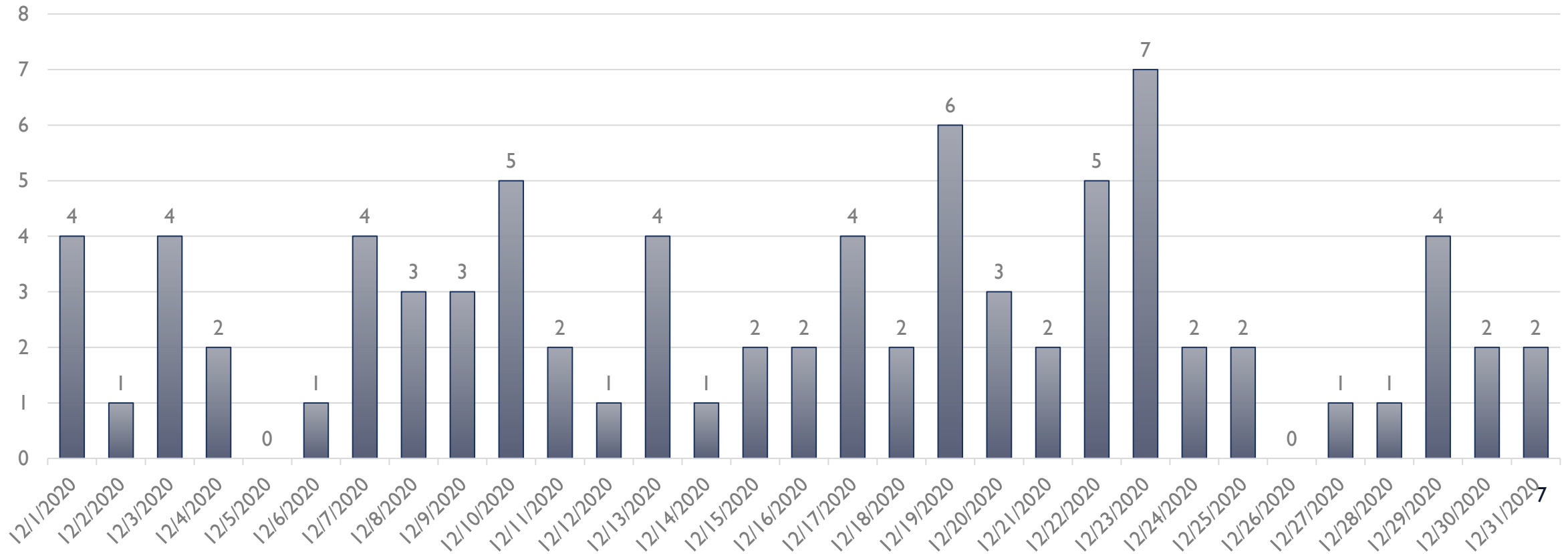
## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



Strategic Initiative 4

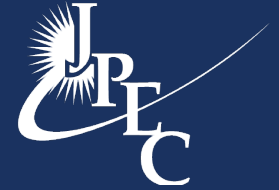
### December Outages by Day

**Total: 82**



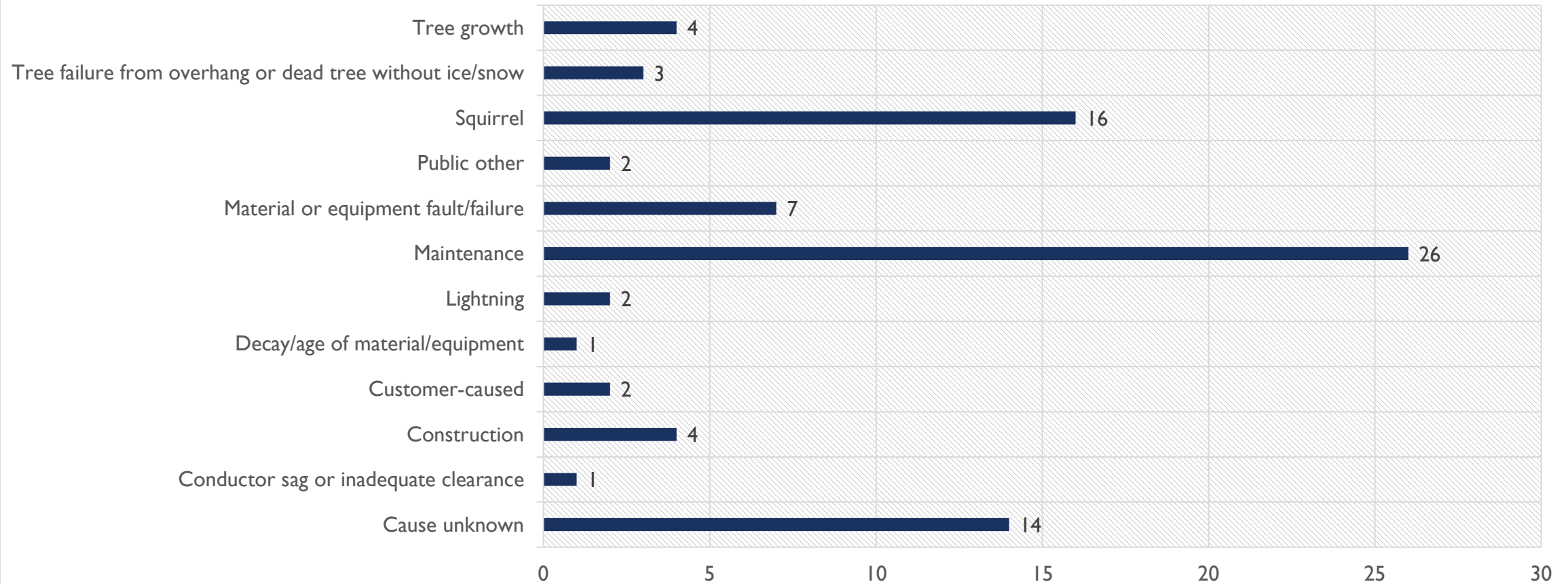
# OPERATIONS/RELIABILITY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



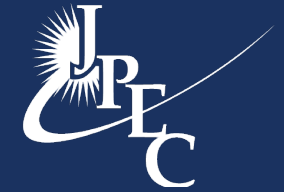
### Strategic Initiative 4

### December Outage Cause



# OPERATIONS/RELIABILITY

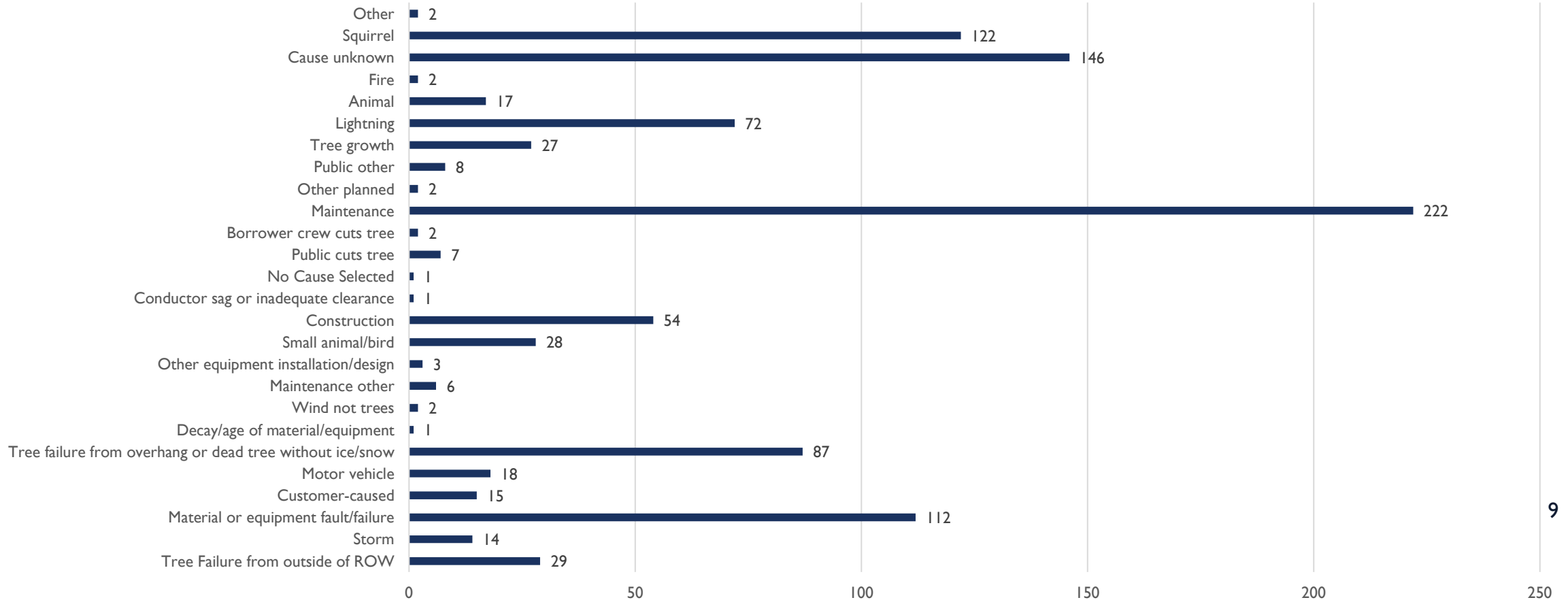
## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



Strategic Initiative 4

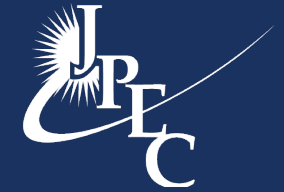
### 2020 Outage Cause

1000 outages



# OPERATIONS/RELIABILITY

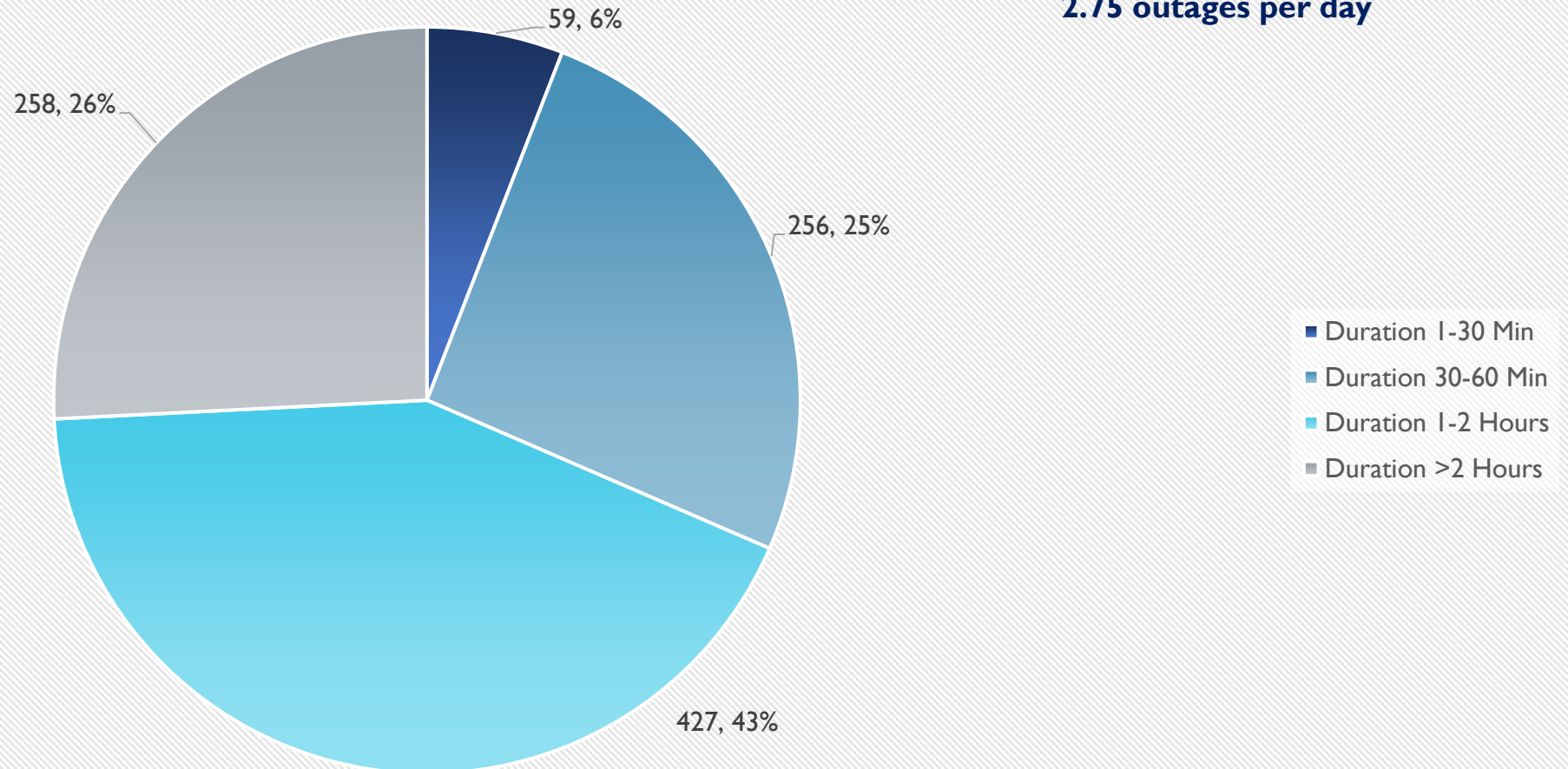
## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



Strategic Initiative 4

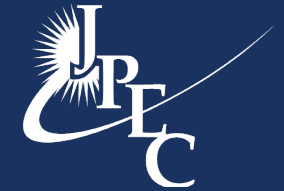
### 2020 Outage Duration

**1000 outages**  
**2.75 outages per day**



## ENGINEERING

### STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



#### *Strategic Initiative 4*

### **Engineering**

- Assembly Unit refinement
- Switching Scenarios – new OMS
- Create new engineering model – add fault current to OMS map

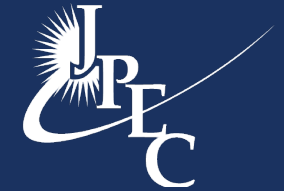
### **Inspections**

- Inspection setup in MapWise and AppSuite
- Working on refining MapWise forms and processing info coming back from field
- Second inspector from Quality Resources



## ENGINEERING

### STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



#### *Strategic Initiative 4*

### **Staking Training**

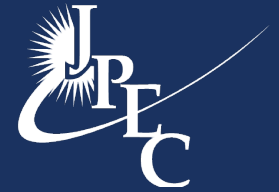
- TVPPA training – Feb 4-5
- Hi-Line Webinars
- Daily work order review

### **Staking Projects:**

- Software Conversion: Re-drawing all jobs drawn from Partner
- Cheddar's –Spring, waiting for someone to sign up for service
- Airport terminal, will need to be completed by end of July
- Work Plan jobs for Groves – line relocations, re-phasing, IP-3P conversions
- Line Inspection work orders
- 2 new subdivisions – Grand Rivers

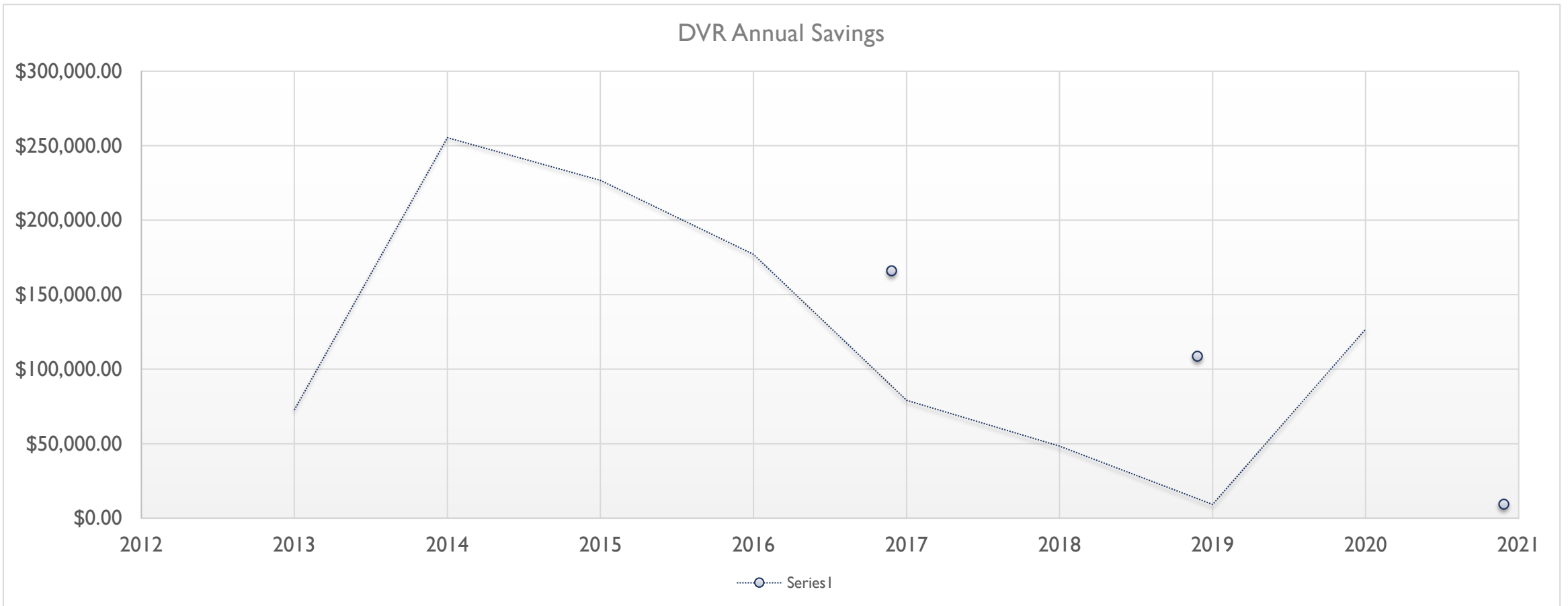
# ENGINEERING

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



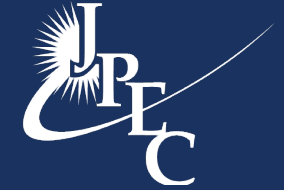
### Strategic Initiative 4

DVR Annual Savings



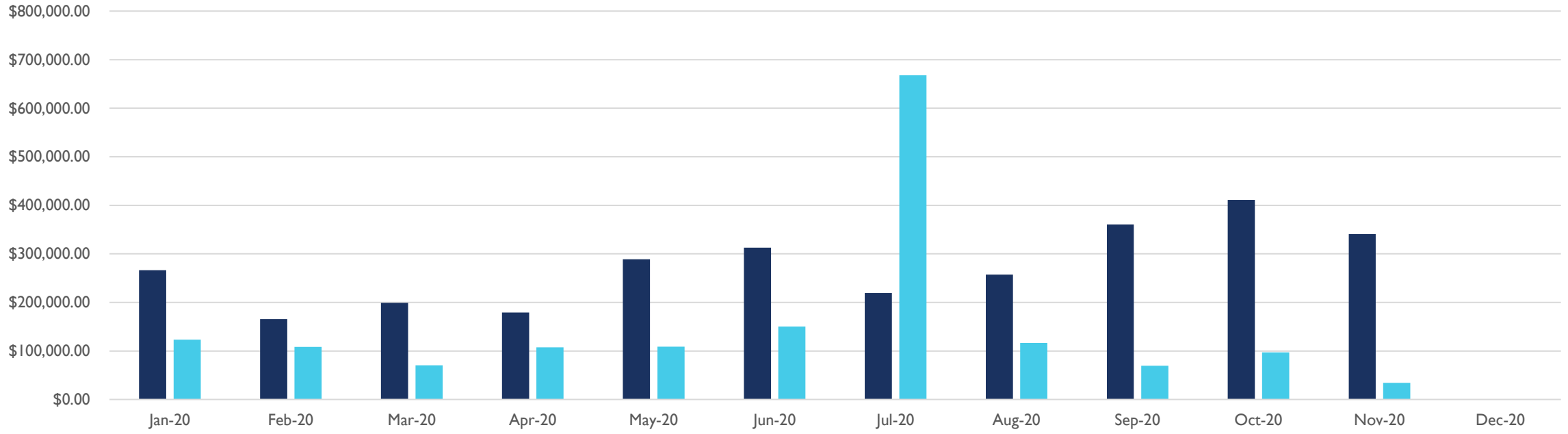
# WAREHOUSE/INVENTORY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



*Strategic Initiative 4*

Materials Purchased

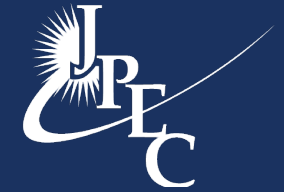


	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20
<b>Purchased</b>	\$266,283.97	\$165,785.70	\$199,018.78	\$179,274.77	\$288,774.78	\$312,622.92	\$219,369.89	\$257,248.64	\$360,736.43	\$411,112.89	\$340,755.61	
<b>Charged</b>	\$123,154.64	\$108,642.62	\$70,584.05	\$107,362.88	\$108,710.03	\$150,557.55	\$667,812.91	\$116,606.26	\$69,607.63	\$97,315.74	\$34,553.84	

■ Purchased   ■ Charged

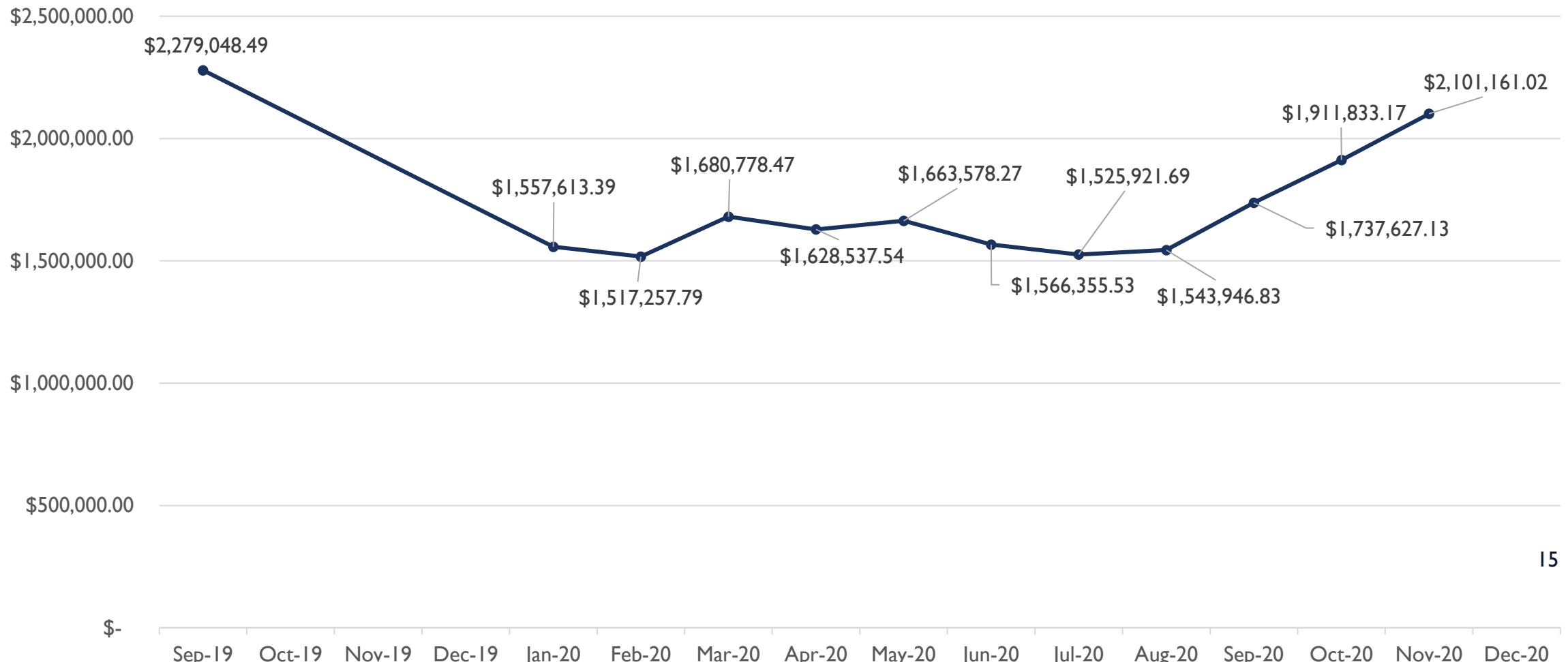
# WAREHOUSE/INVENTORY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



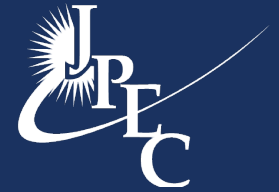
Strategic Initiative 4

### Inventory Dollar Amount 2020



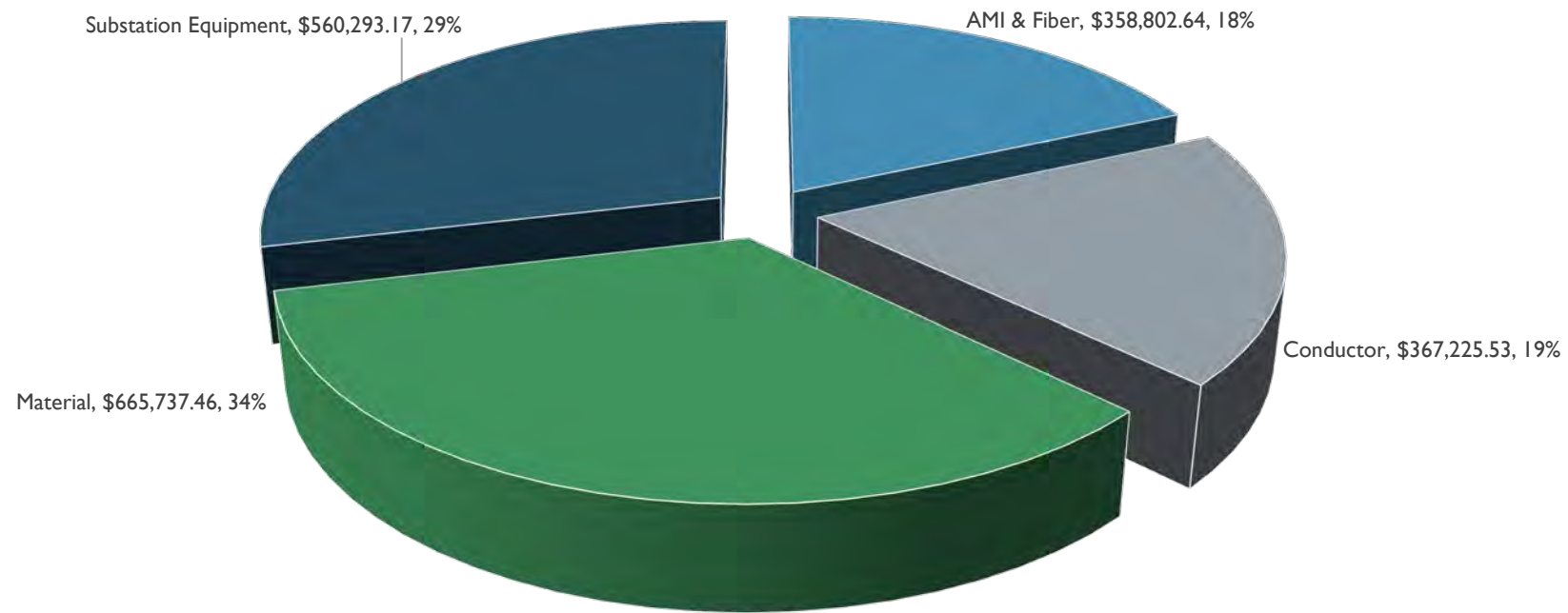
# WAREHOUSE/INVENTORY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



Strategic Initiative 4

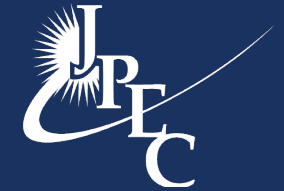
Inventory Percentages



■ AMI & Fiber ■ Conductor ■ Material ■ Substation Equipment

## TECHNICAL SERVICES

### STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



#### *Strategic Initiative 4*

### **Substations**

- Develop a Substation Maintenance Program
- Substation 69 KV Breaker Replacements
- Krebs Substation Rebuild 2021-2022
- SCADA updates - regulator controls, add all SEL relays
- Switching Scenarios – new OMS

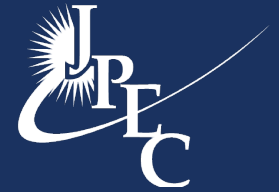
### **Automation**

- Upgrading controls on DA system
- New HQ automated switching

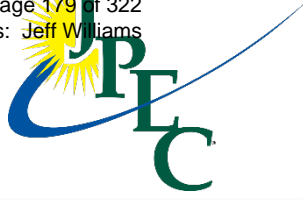
### **Fiber**

- BREC/JPEC Fiber Buildout 2021
- New HQ fiber connection through Little Union

# OPERATIONS & TECHNICAL SERVICES



# Questions?



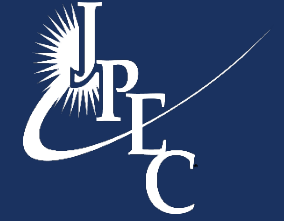
# Jackson Purchase Energy Cooperative

Engineering, Technical Services  
& Operations  
March 2021



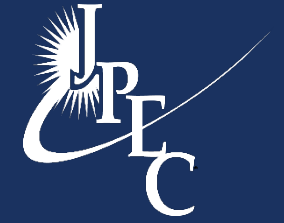


# JACKSON PURCHASE ENERGY



## Strategic Initiatives

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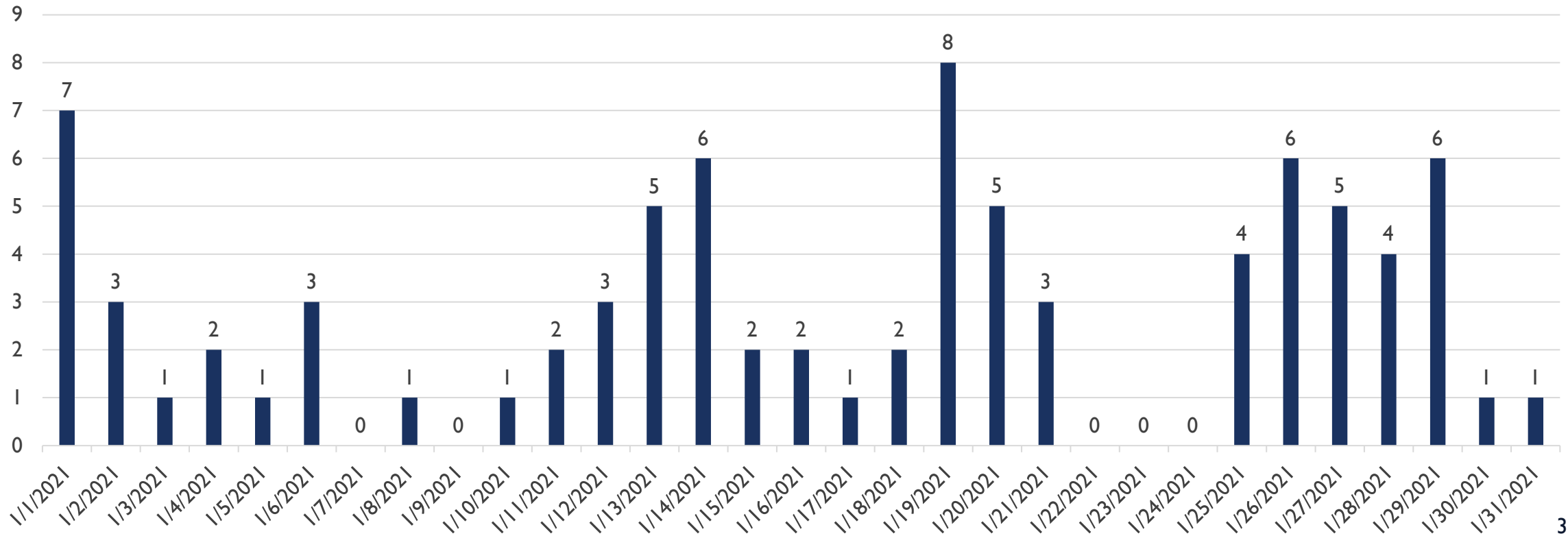
# OPERATIONS/RELIABILITY

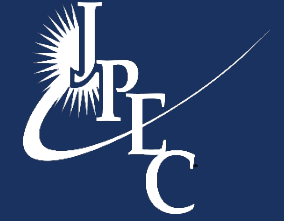
## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

### January Outages by Day

**Total: 85**



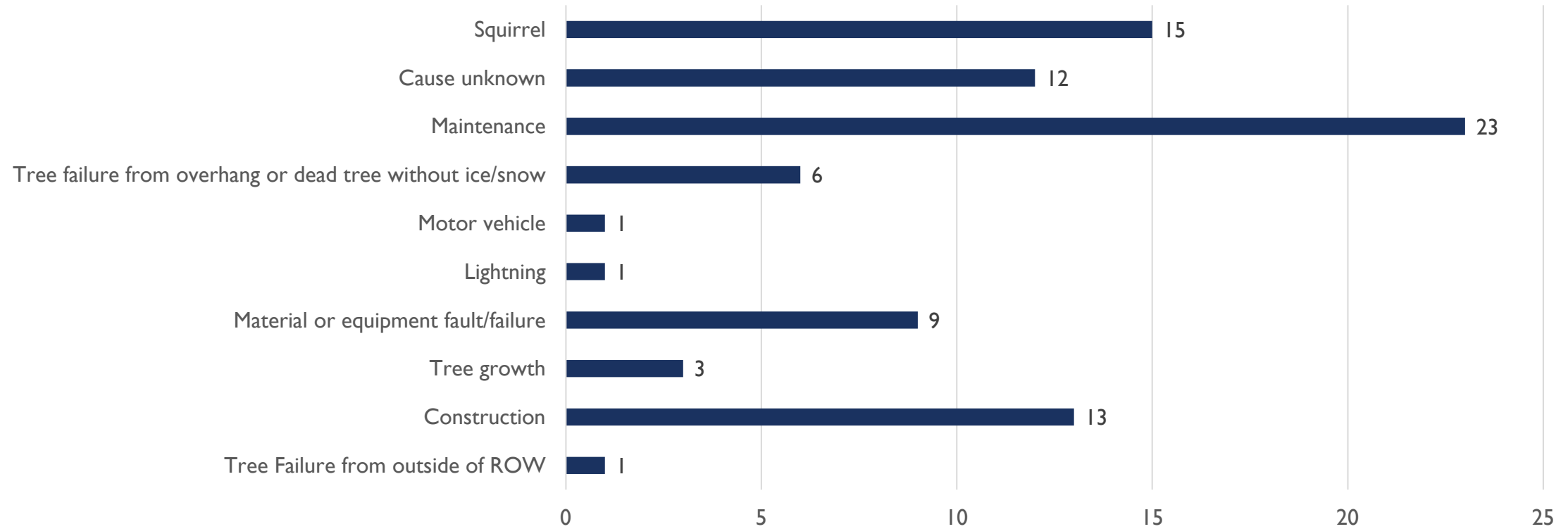


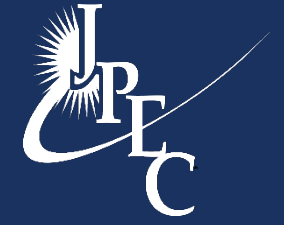
# OPERATIONS/RELIABILITY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

### January Outage Cause



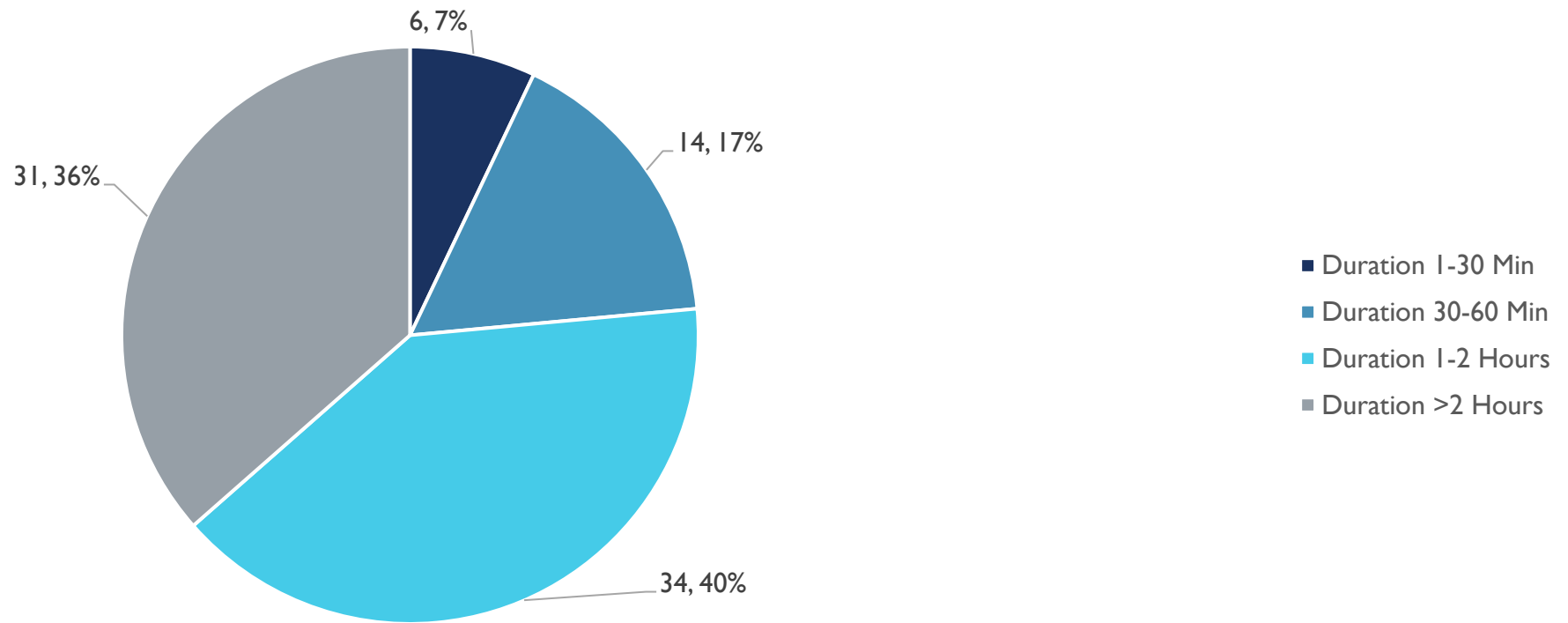


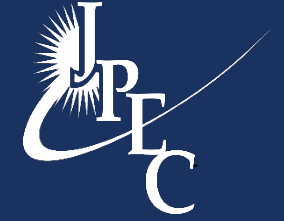
# OPERATIONS/RELIABILITY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

### January Outage Duration





# OPERATIONS

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

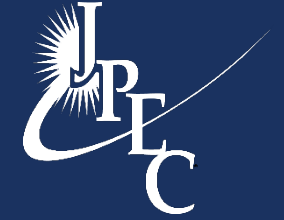
### 2021 ROW PLAN

		Circuit	Take Downs	Total
Little Union	Airport	\$129,791.00	\$21,677.75	\$151,468.75
Krebs	Clinton Rd	\$337,364.00	\$79,766.75	\$417,130.75
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			Total	\$1,021,310.50
			Budget	\$1,490,840.00
Cost Per Mile	\$12,766.38		Difference	469,529.50

- Approximately 80 Circuit Miles
- As the budget allows, we will increase circuit cutting
- Short term contract with Townsend
  
- 2 Townsend hourly crews
- Spray all substations
  
- We will begin scouting for 2022 circuits
- Working with BREC on ROW plan

# ENGINEERING

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



### Strategic Initiative 4

#### **Engineering**

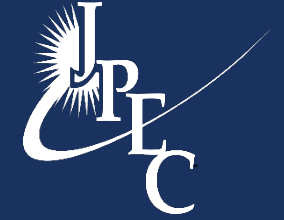
- Assembly Unit refinement
- Switching Scenarios – new OMS
- Create new engineering model – add fault current to OMS map

#### **Inspections**

- Inspection setup in MapWise and AppSuite
- Working on refining MapWise forms and processing info coming back from field
- Second inspector from Quality Resources

## ENGINEERING

### STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



#### *Strategic Initiative 4*

#### **Staking Training**

- TVPPA training – March 4-5
- Hi-Line Webinars
- Daily work order review

#### **Staking Projects:**

- Software Conversion: Re-drawing all jobs drawn from Partner
- Cheddar's – Spring, waiting for someone to sign up for service
- Airport terminal, will need to be completed by end of July
- Work Plan jobs for Groves – line relocations, re-phasing, 1P-3P conversions
- Line Inspection work orders
- 2 new subdivisions – Grand Rivers

# WAREHOUSE/INVENTORY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



Strategic Initiative 4

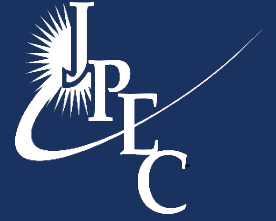
### Materials Purchased



	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
■ Purchased	\$339,500.59											
■ Charged	\$132,710.36											

■ Purchased ■ Charged





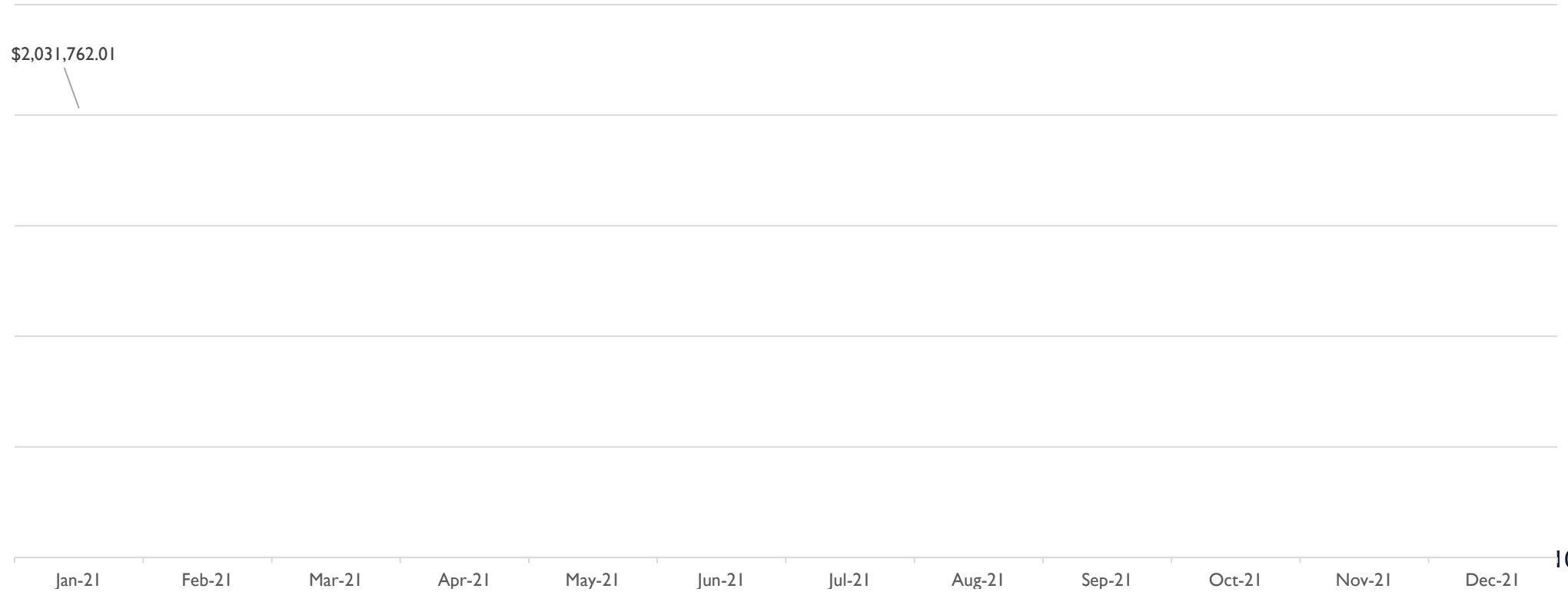
# WAREHOUSE/INVENTORY

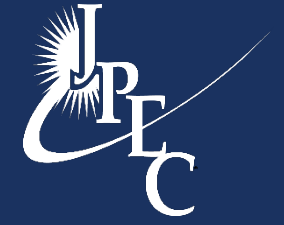
## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

Inventory Dollar Amount

\$2,031,762.01



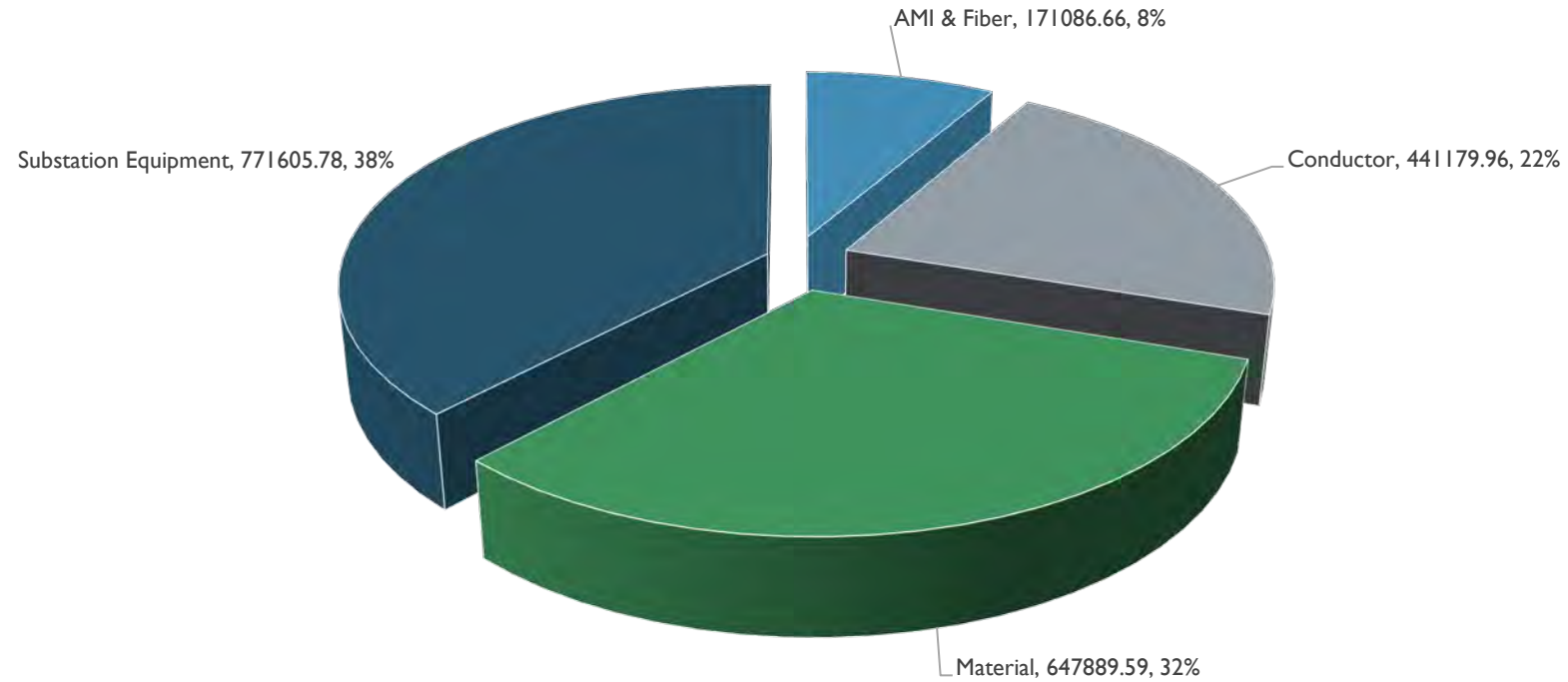


# WAREHOUSE/INVENTORY

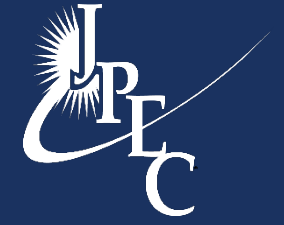
## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

Inventory Percentages



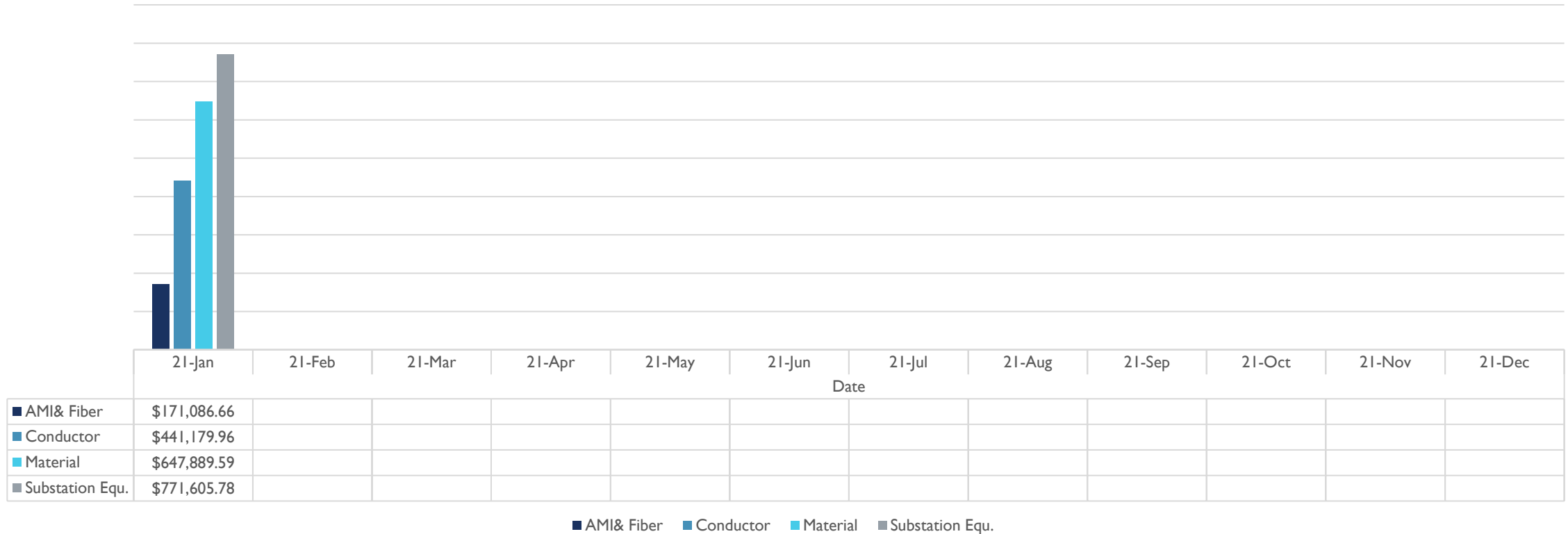
■ AMI & Fiber ■ Conductor ■ Material ■ Substation Equipment



# WAREHOUSE/INVENTORY

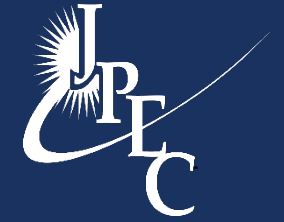
## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Inventory Changes by Category



# WAREHOUSE/INVENTORY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



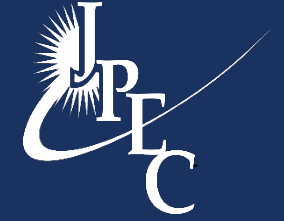
### *Strategic Initiative 4*

#### **New Building:**

- Integration with UUS
- Equipment for new facility

#### **Material:**

- Material cost increases
- Lead times



## TECHNICAL SERVICES

### STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

#### *Strategic Initiative 4*

#### **Substations**

- Develop a Substation Maintenance Program
- Substation 69 KV Breaker and Relay Replacements  
Little Union, Husbands Rd. and Coleman
- Krebs Substation Rebuild 2021-2022
- Continuing to upgrade regulator controls
- Completed oil top offs on regulators

#### **Automation**

- Upgrading WE controls at Maxon and Little Union
- New HQ automated switching

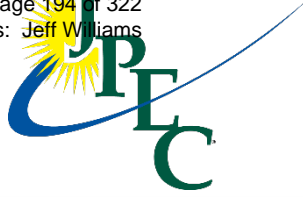
#### **Fiber**

- BREC/JPEEC Fiber Buildout 2021
- New HQ fiber connection through Little Union

# OPERATIONS & TECHNICAL SERVICES



# Questions?

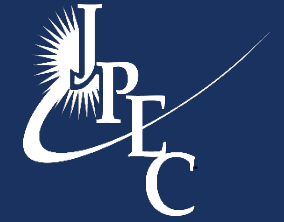


# Jackson Purchase Energy Cooperative

Engineering, Technical Services & Operations  
April 2021



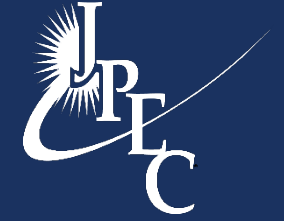
# JACKSON PURCHASE ENERGY



## Strategic Initiatives

1. **Safety** – instill a culture of safety throughout the entire organization as it applies to cooperatives
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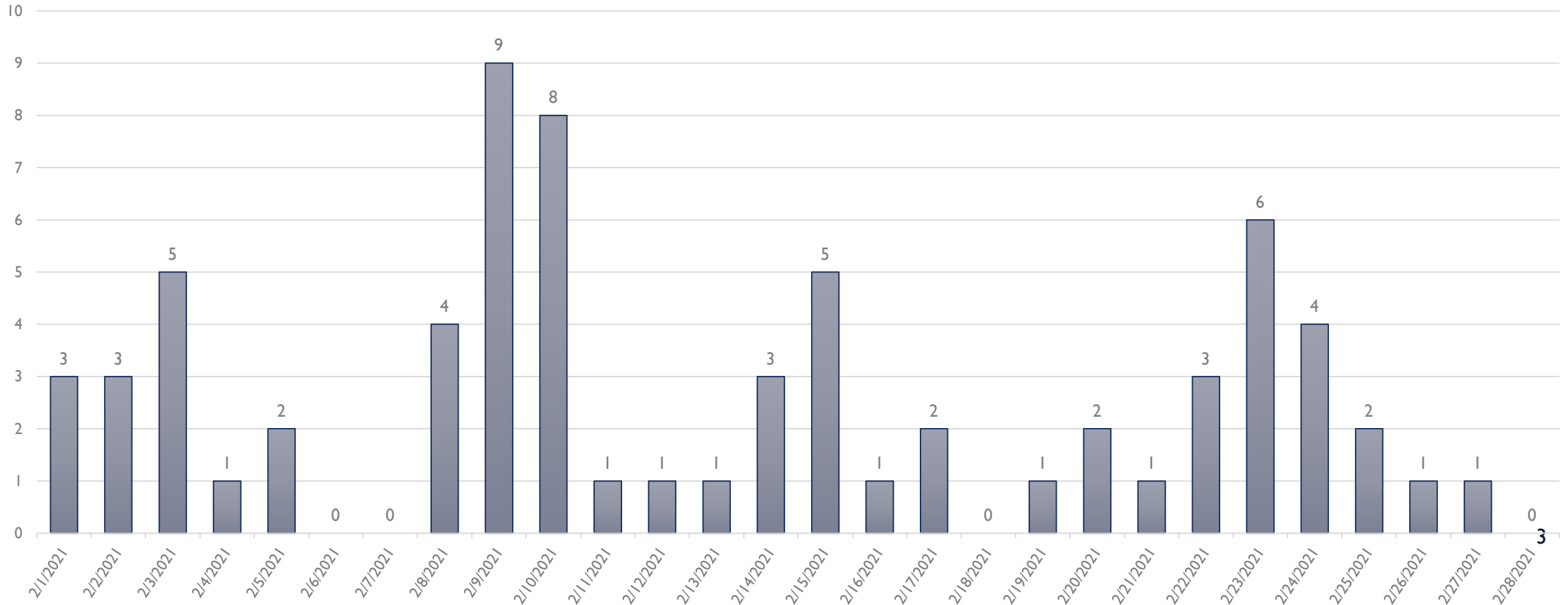


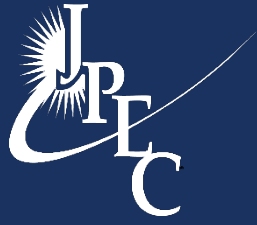
# OPERATIONS/RELIABILITY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

February Outages by Day



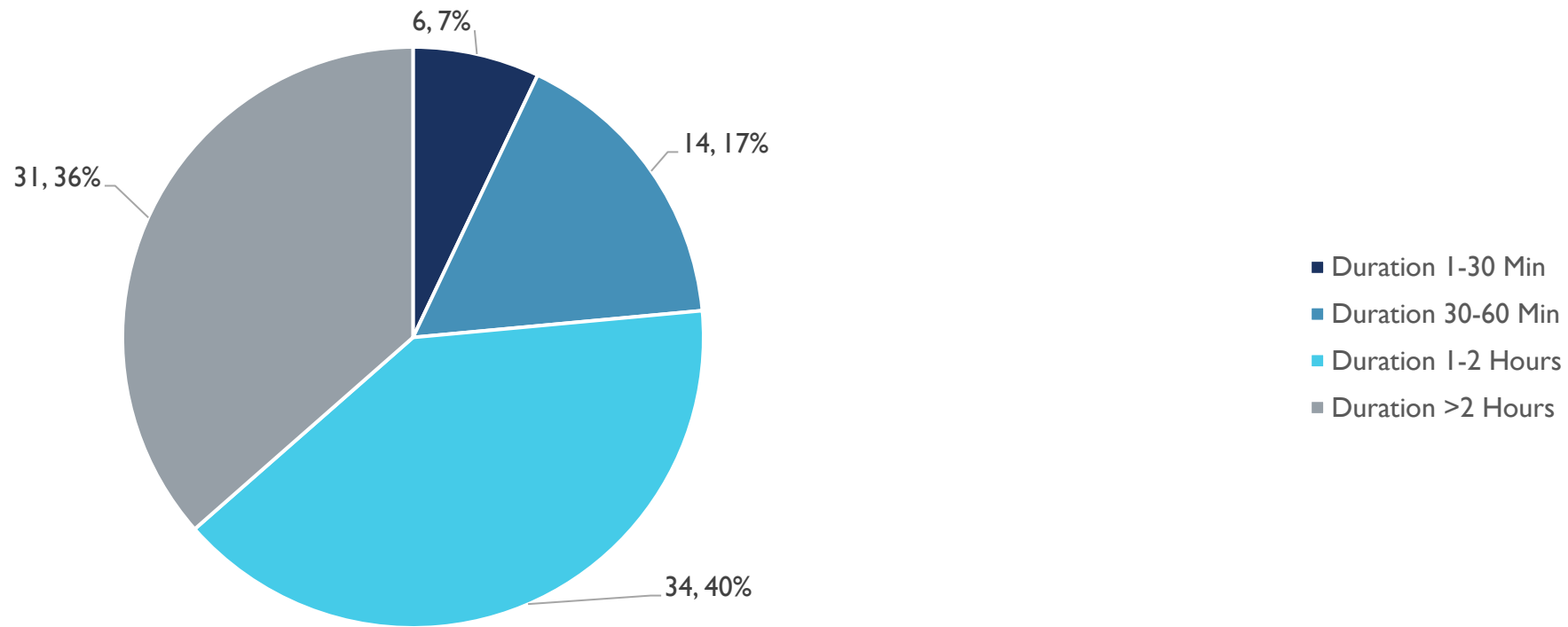


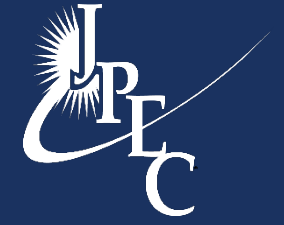
# OPERATIONS/RELIABILITY

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Strategic Initiative 4

### February Outage Duration





# OPERATIONS

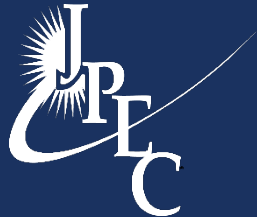
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Strategic Initiative 4

### 2021 ROW PLAN

		Circuit	Take Downs	Total
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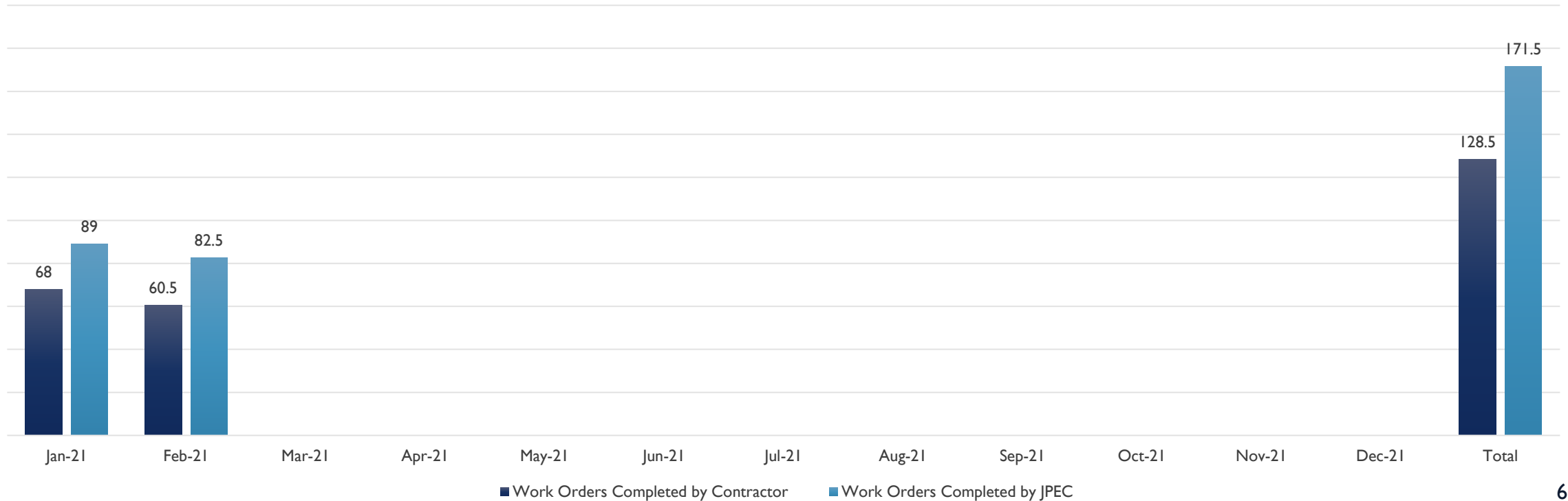


# OPERATIONS

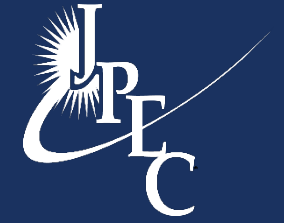
## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

### Work Orders



\*\* NOTE: The .5 for work orders are when both JPEC and Contractors work on the same work order.

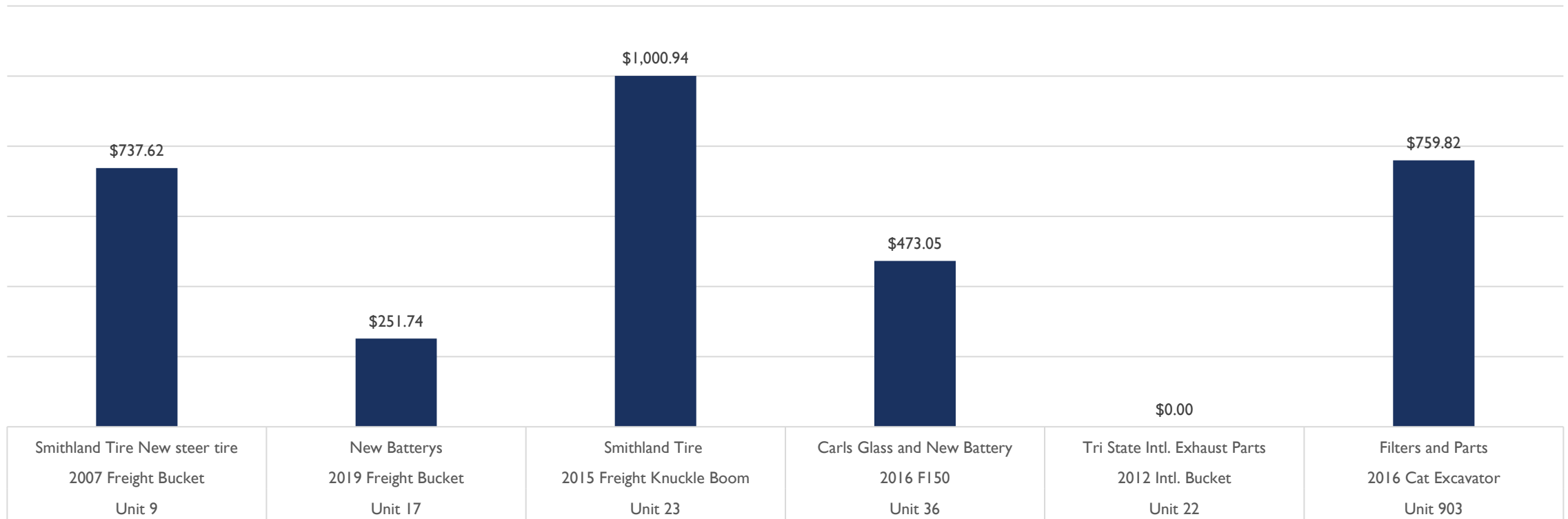


# OPERATIONS

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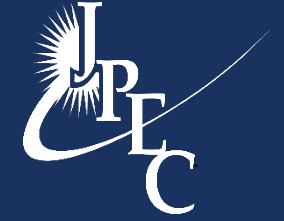
Strategic Initiative 4

Fleet February 2021



# ENGINEERING

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



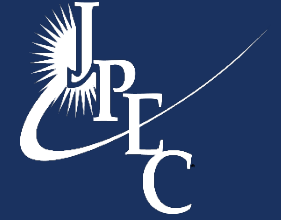
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## ENGINEERING

### STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



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# WAREHOUSE/INVENTORY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



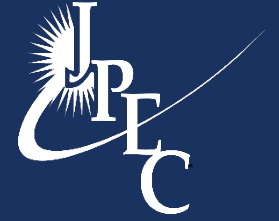
Strategic Initiative 4

Materials Purchased



■ Purchased ■ Charged



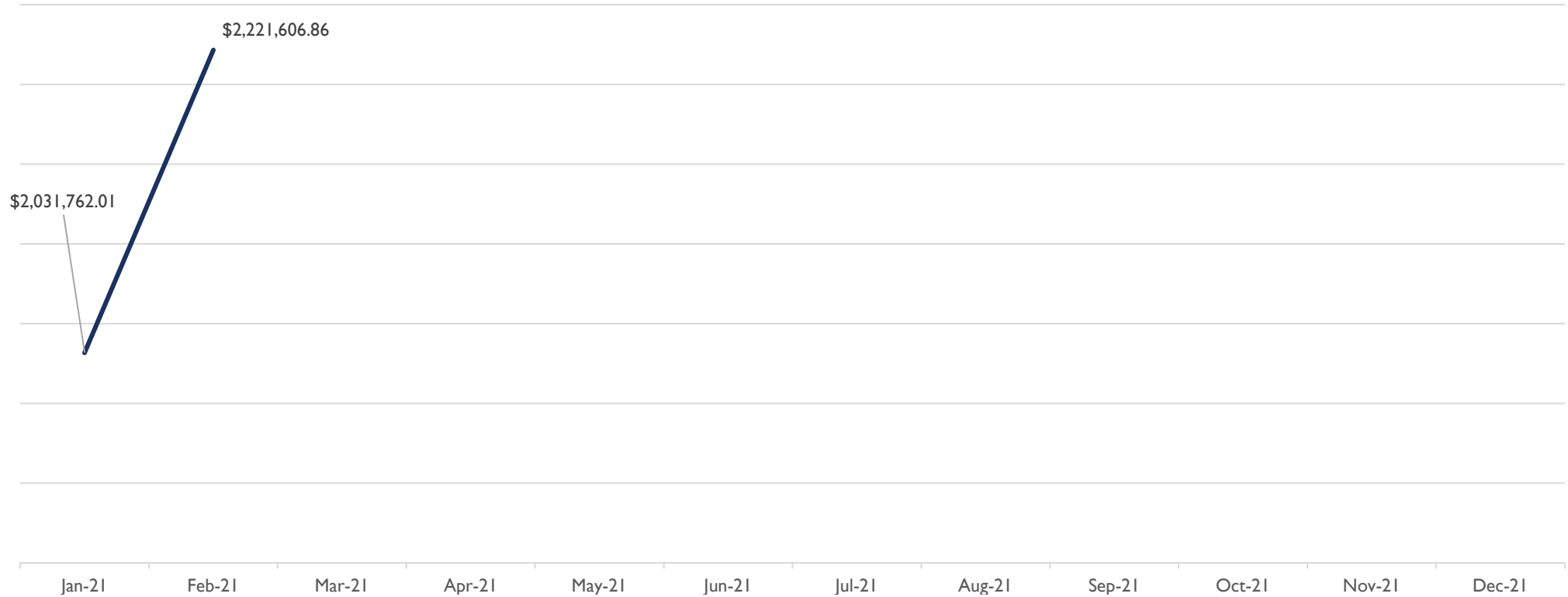


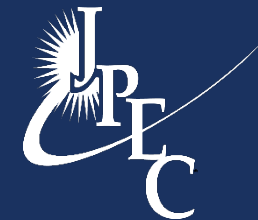
# WAREHOUSE/INVENTORY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

*Strategic Initiative 4*

Inventory Dollar Amount 2021



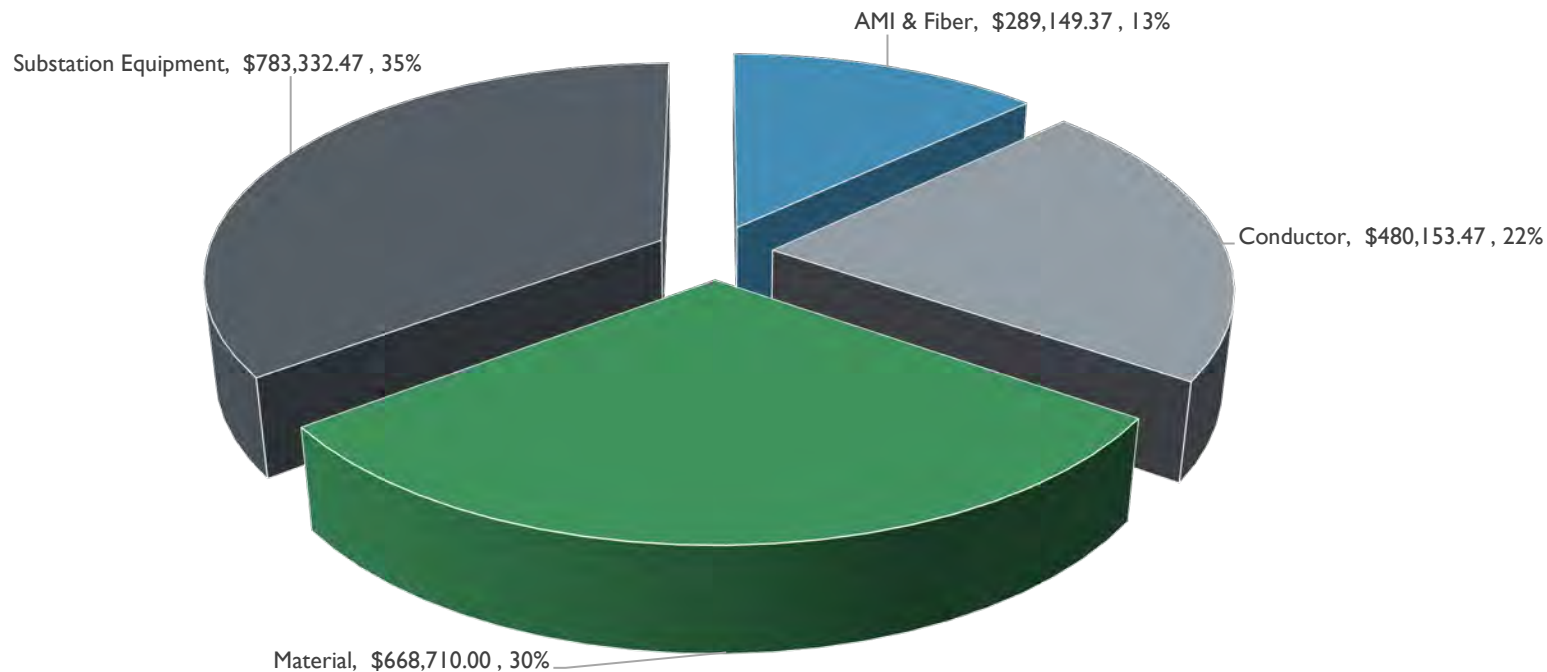


# WAREHOUSE/INVENTORY

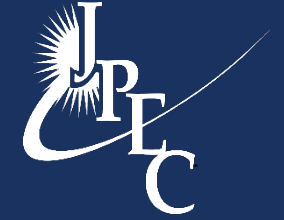
## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

Inventory Percentages



■ AMI & Fiber ■ Conductor ■ Material ■ Substation Equipment



## TECHNICAL SERVICES

### STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

#### *Strategic Initiative 4*

#### **Substations:**

- Substation Maintenance Program
- Substation 69 KV Breaker and Relay Replacements
  - Little Union, Husbands Rd and Coleman
- Krebs Substation Rebuild 2021-2022
- Upcoming Communications Upgrades
  - Ledbetter, Smithland, Reidland and Highpoint

#### **New Tech**

- Cutout Mounted Sectionalizer
- MOD research

#### **Automation**

- Upgrading WE controls at Maxon and Little Union
- New HQ automated switching

#### **Fiber**

- BREC/JPEC Fiber Buildout 2020-21
- Livingston Sub to McCracken Sub: 58.54/78.88 Miles. Completed: 74%
- Livingston Sub to Grand Rivers: 7.14 Miles
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- 3GIS Mapping Software

# OPERATIONS & TECHNICAL SERVICES



# Questions?



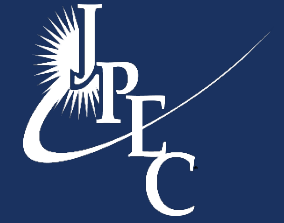
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Engineering, Technical Services & Operations  
May 2021

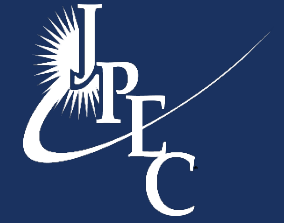


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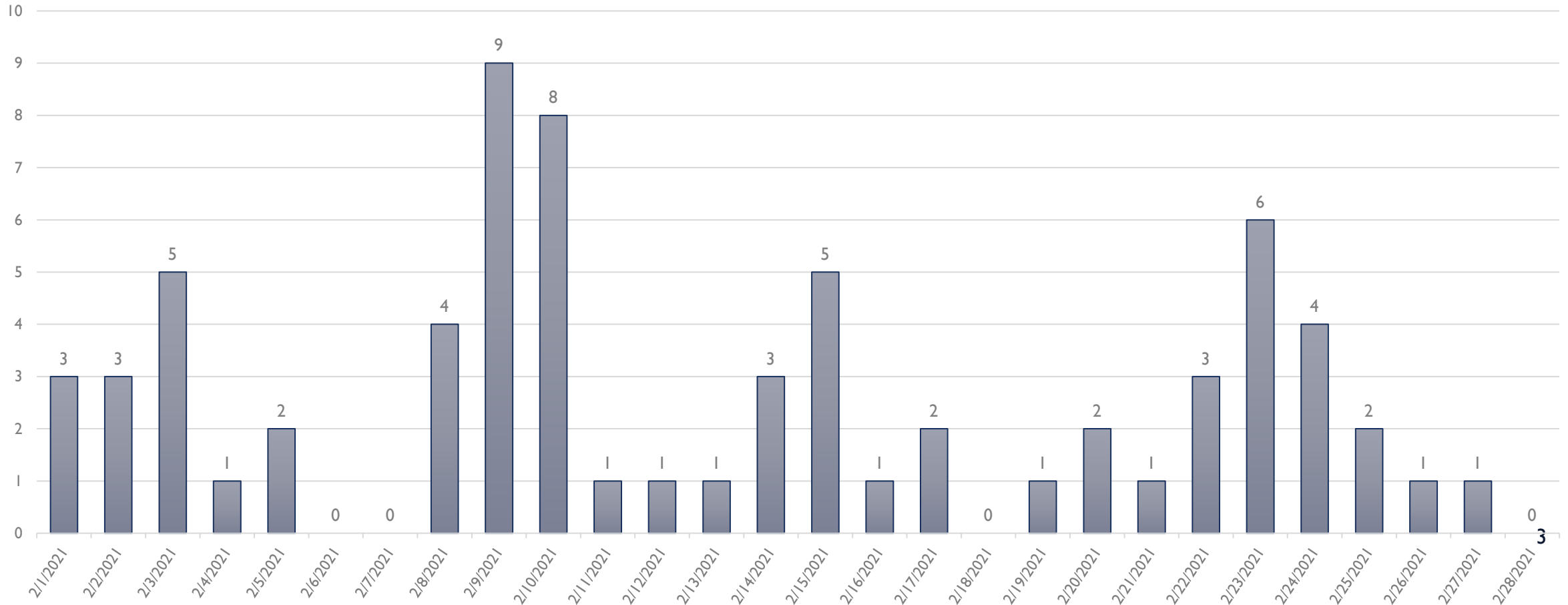


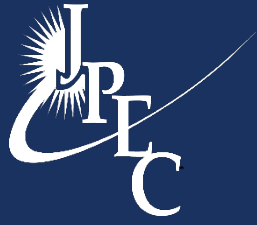
# OPERATIONS/RELIABILITY

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Strategic Initiative 4

March Outages by Day



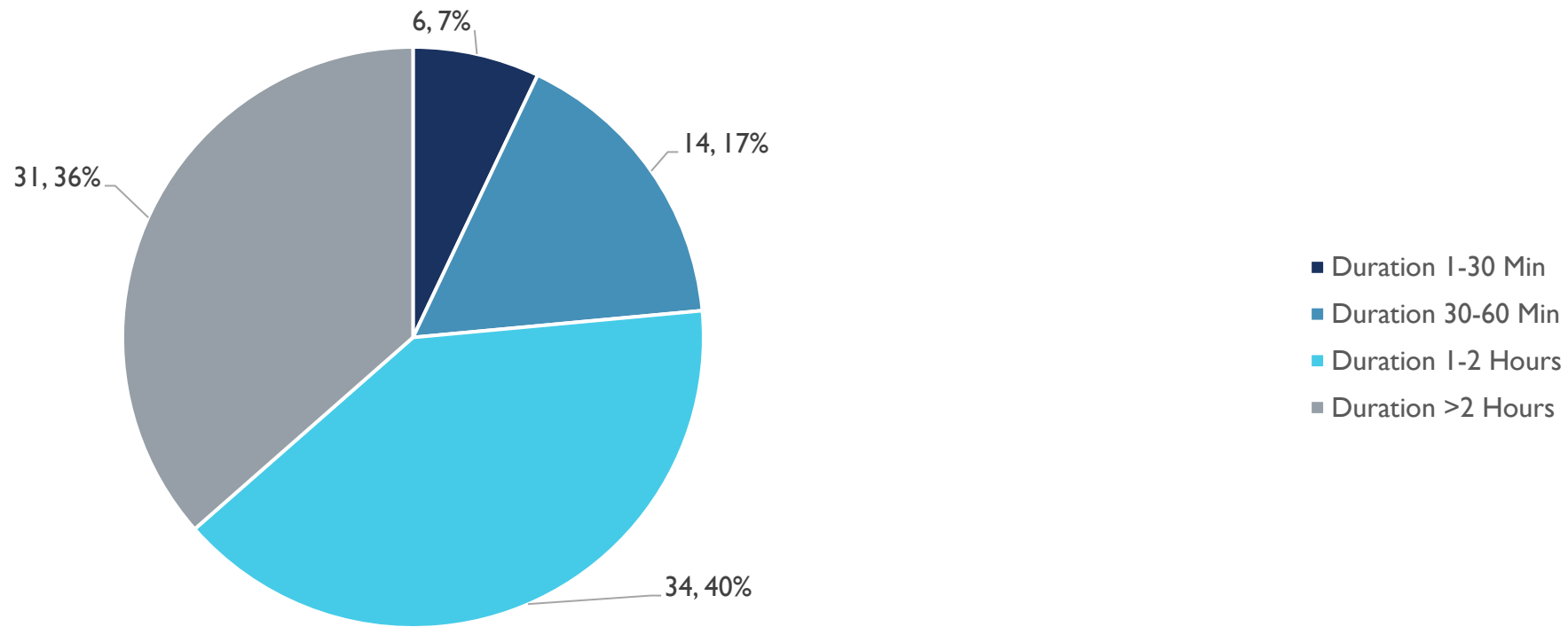


# OPERATIONS/RELIABILITY

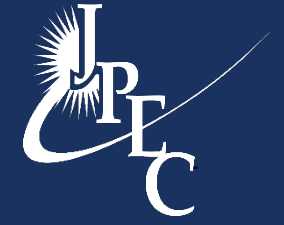
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Strategic Initiative 4

### March Outage Duration







# OPERATIONS

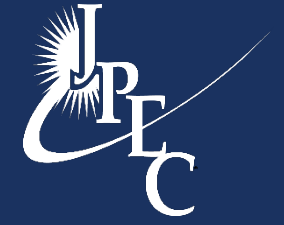
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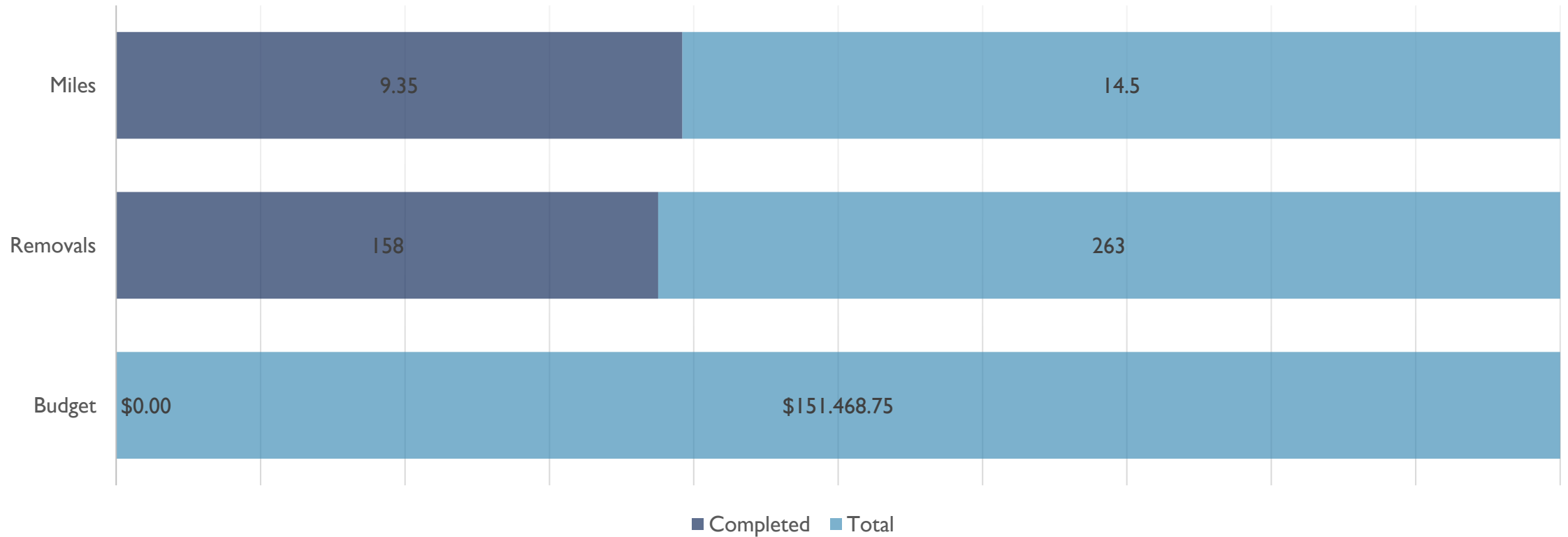


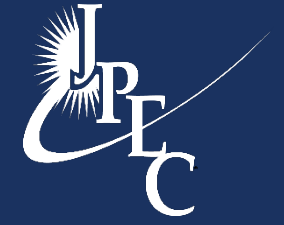
# OPERATIONS

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

### 3901 AIRPORT CIRCUIT



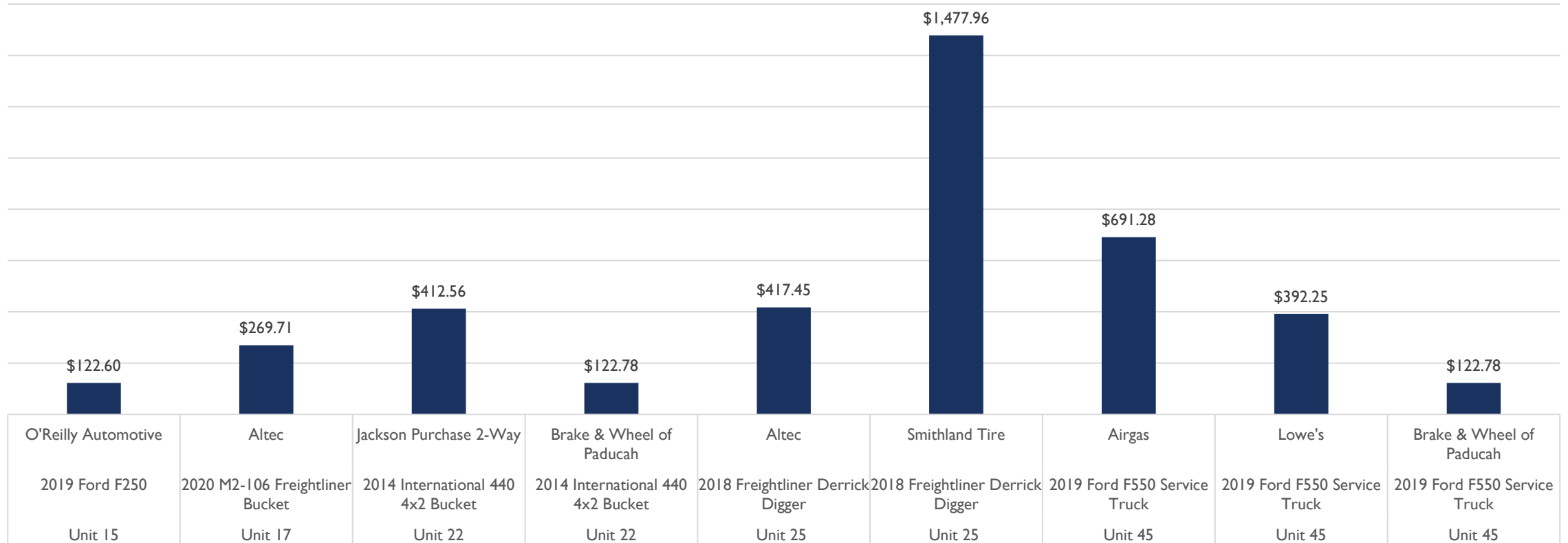


# OPERATIONS

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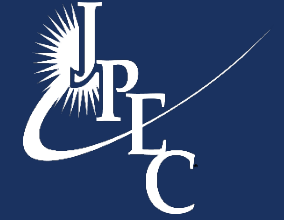
Strategic Initiative 4

Fleet March 2021



# ENGINEERING

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



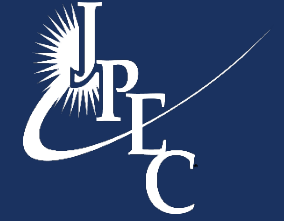
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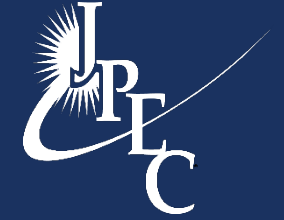
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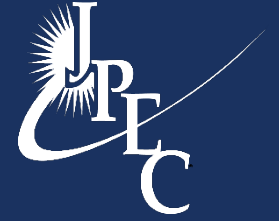
### STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



#### Strategic Initiative 4

### 2021 CWP Work Plan Projects

- **Calvert City Substation, Gilbertsville 4303**
  - Status: Completed
- **Krebs Road Substation, Clinton Rd 5003**
  - Status: In Design Stage
  - Notes: First ½ mile has been designed and staked. Will submit to construction after highway permit approval and begin design of next section.
- **Smithland Substation, Tiline 3202**
  - Status: In Design Stage
  - Notes: Received permission from landowners. Designing route for line relocation.
- **Culp Substation, Possum Trot 42234**
  - Status: Not Started
- **New York Substation, Slater 47254**
  - Status: Not Started
- **New York Substation, Wickliffe 47244**
  - Status: Not Started

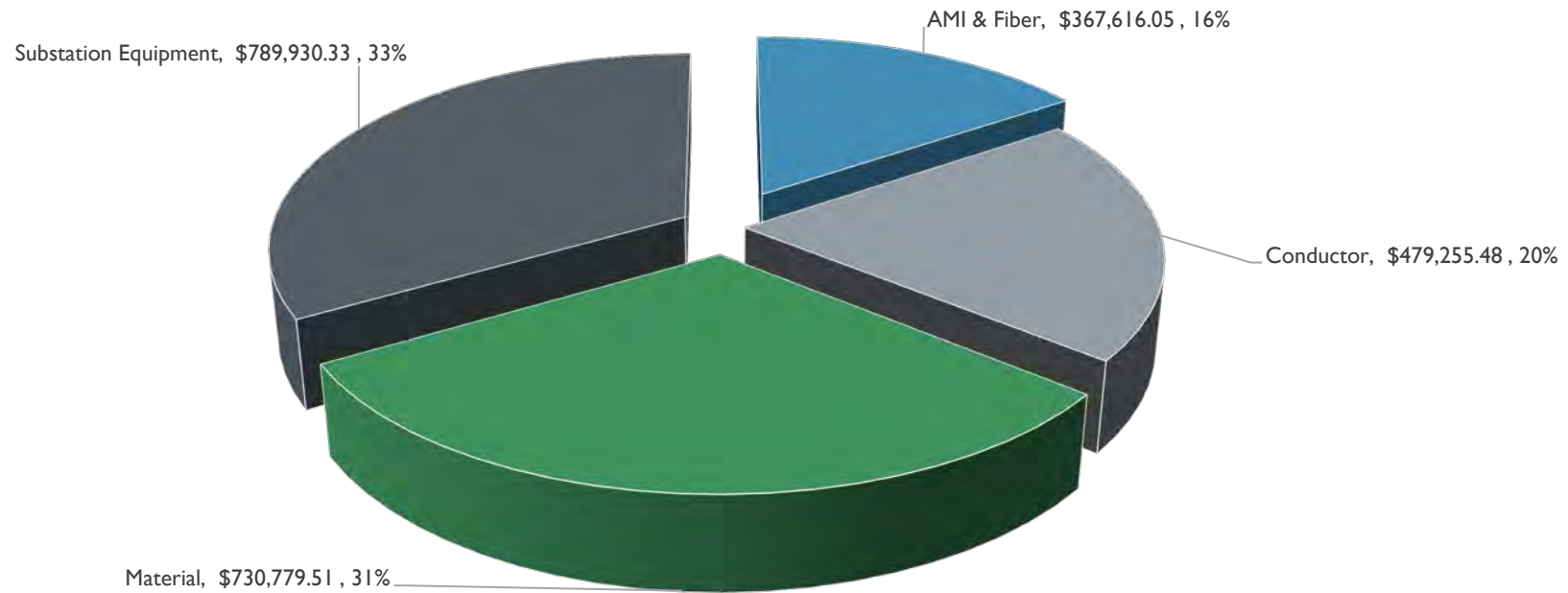


# WAREHOUSE/INVENTORY

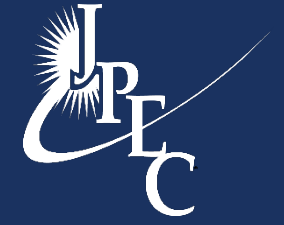
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Strategic Initiative 4

Inventory Percentages



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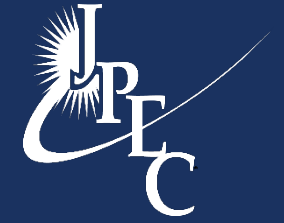
# WAREHOUSE/INVENTORY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4







# TECHNICAL SERVICES

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

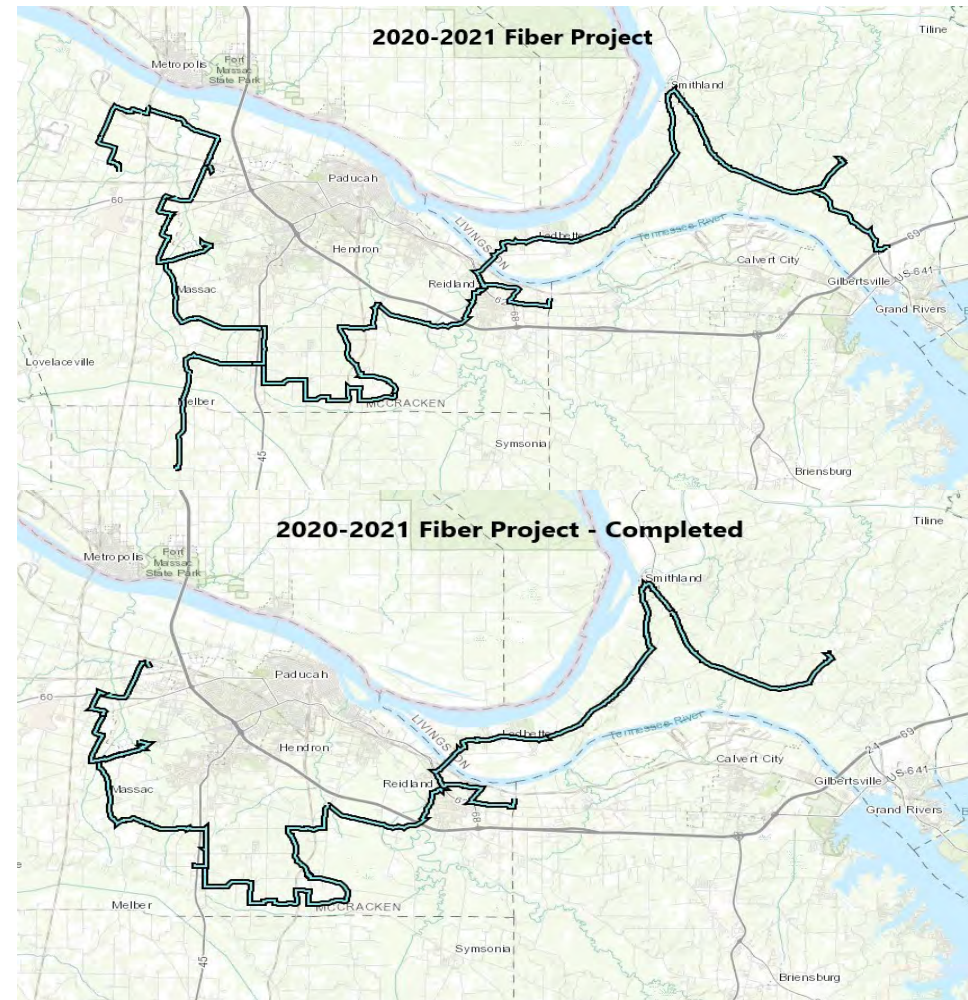
### Strategic Initiative 4

#### Substations:

- Substation Maintenance and Testing
  - New York – Regulators and transformer
  - Kansas – Relay
  - Draffenville – General maintenance
  - Culp – WE testing, and WE control testing
- In progress upgrades
  - Communications
    - Ledbetter
    - Smithland
    - Reidland
    - Highpoint
  - 69 Breaker and relay replacement
    - Little Union
    - Husband Rd
    - Coleman Rd
  - Krebs substation rebuild

#### Fiber

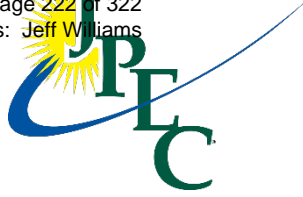
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# OPERATIONS & TECHNICAL SERVICES



# Questions?

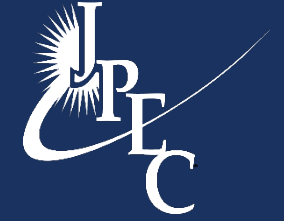


# Jackson Purchase Energy Cooperative

Engineering, Technical Services & Operations  
June 2021

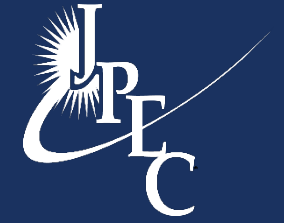


# JACKSON PURCHASE ENERGY



## Strategic Initiatives

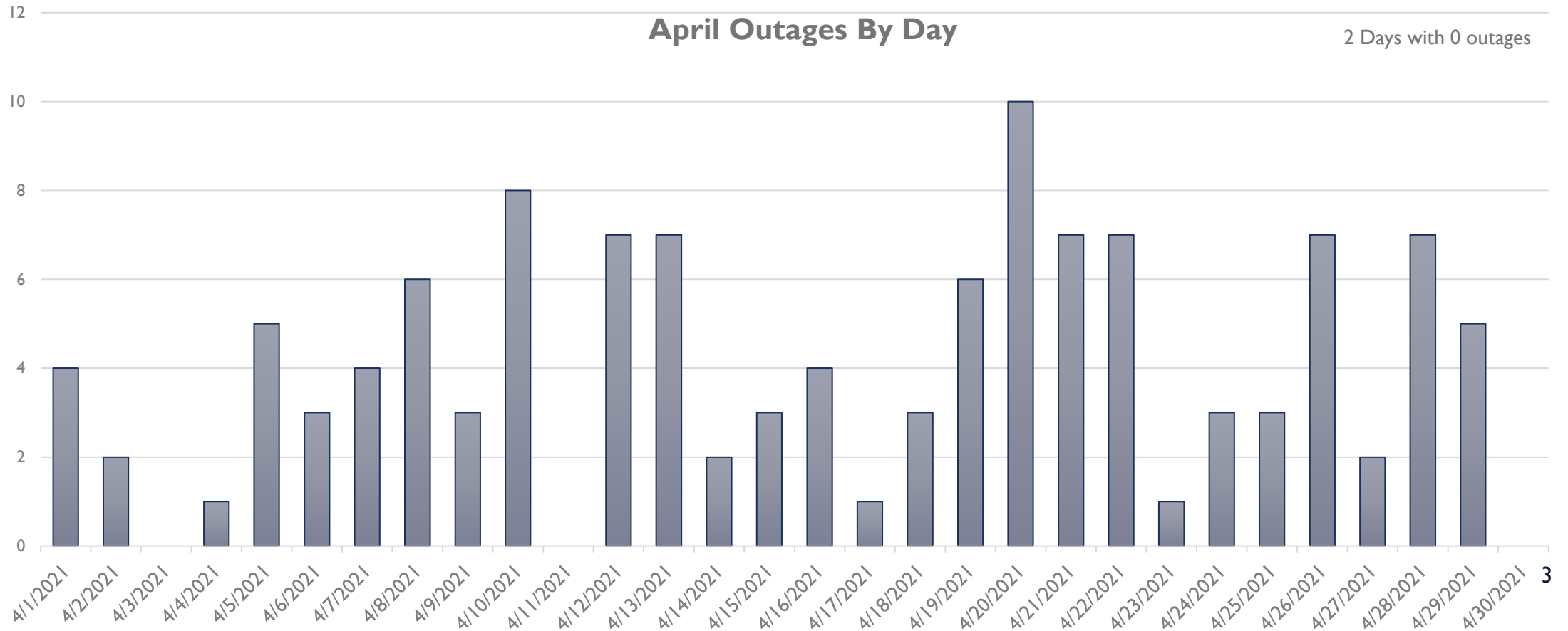
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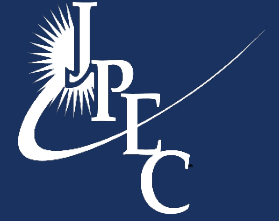


# OPERATIONS/RELIABILITY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4



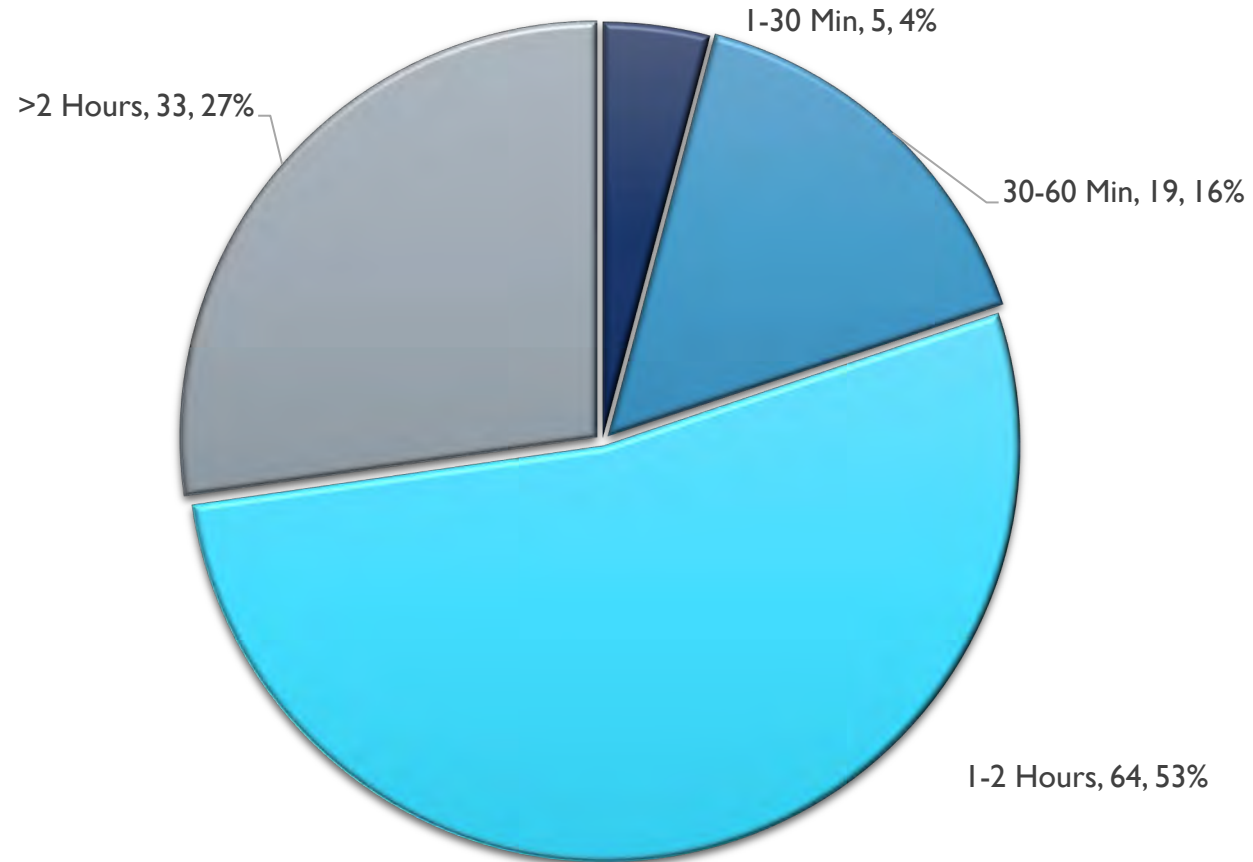


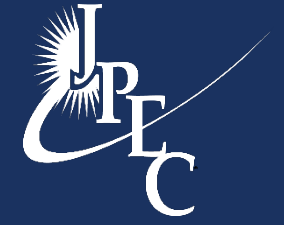
# OPERATIONS/RELIABILITY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

### Outage Duration





# OPERATIONS

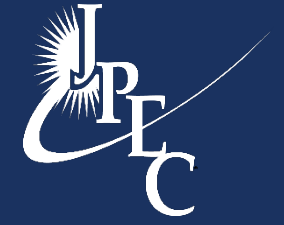
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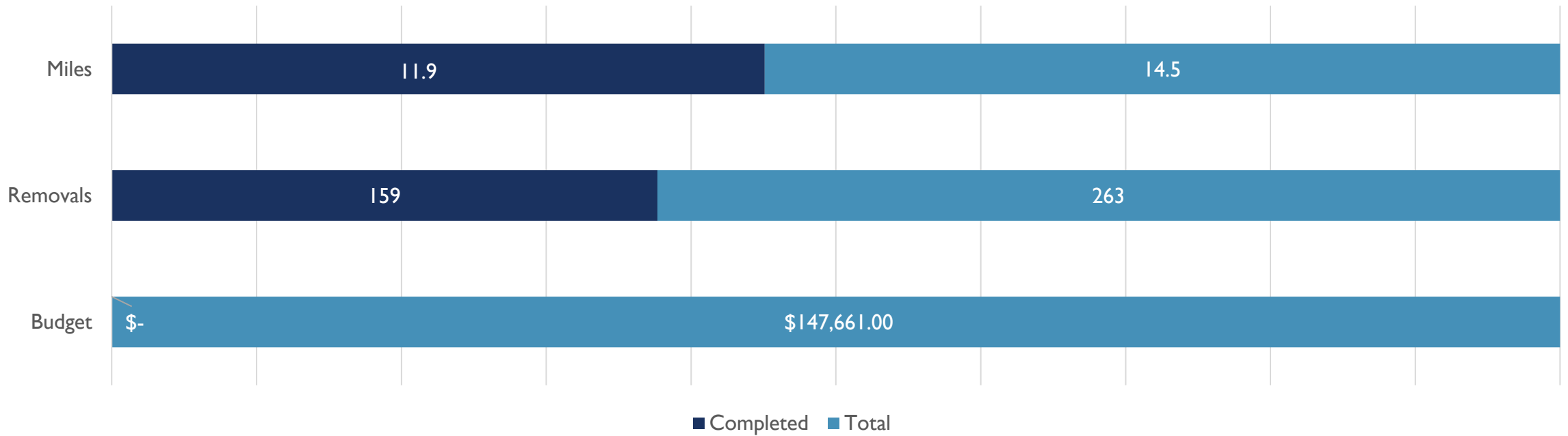


# OPERATIONS

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

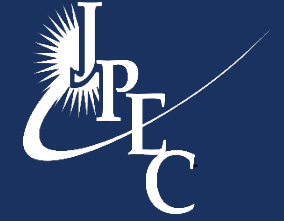
### 3901 Airport Circuit





# ENGINEERING

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



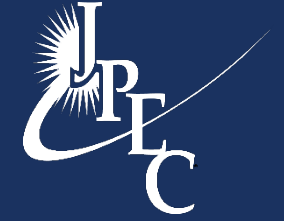
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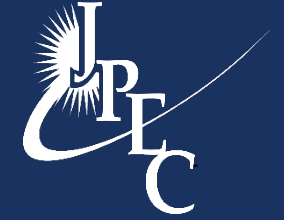
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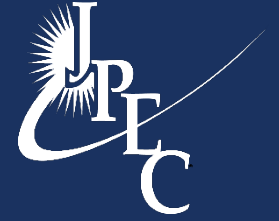
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- **Smithland Substation, Tiline 3202**
  - Status: In Design Stage
  - Notes: Received permission from landowners. Designing route for line relocation.
- **Culp Substation, Possum Trot 42234**
  - Status: Not Started
- **New York Substation, Slater 47254**
  - Status: Not Started
- **New York Substation, Wickliffe 47244**
  - Status: Not Started



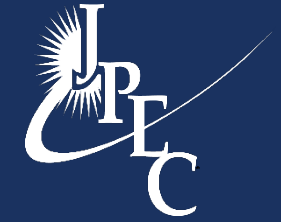
# WAREHOUSE/INVENTORY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

*Strategic Initiative 4*

Inventory Dollar Amount 2021





# TECHNICAL SERVICES

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

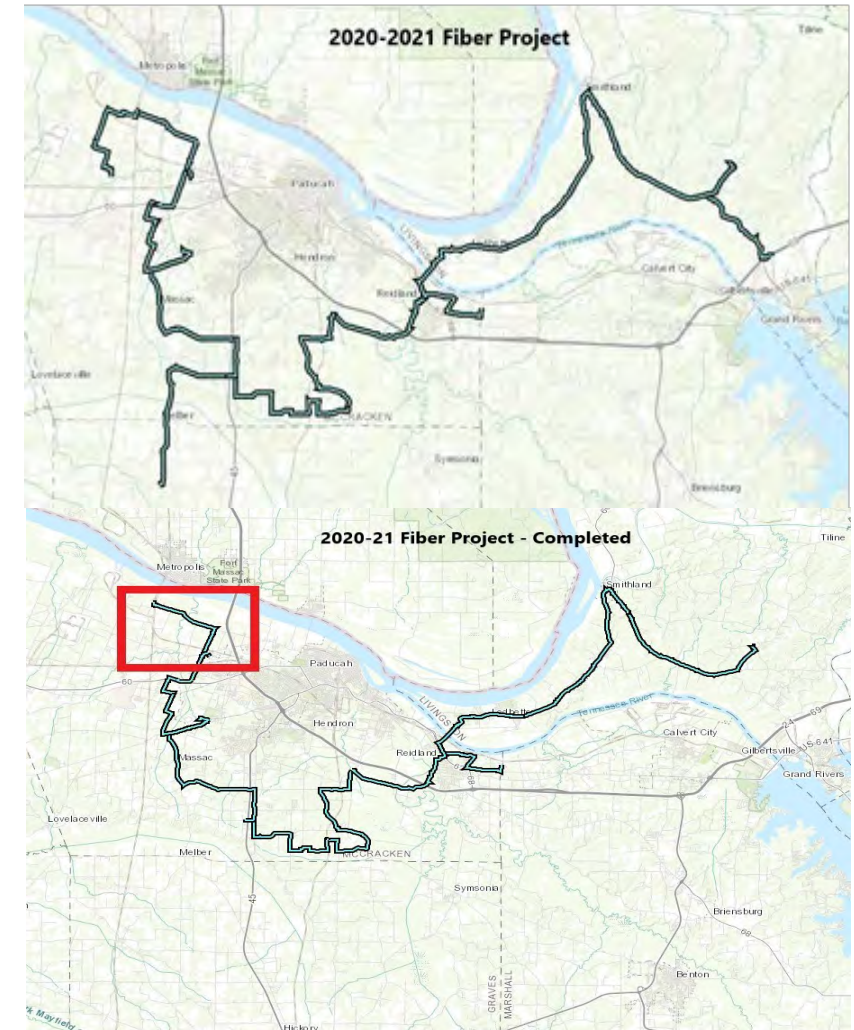
### Strategic Initiative 4

#### Substations:

- Substation Maintenance and Testing
  - DGA oil testing
  -
- Upgrades Completed - Network Switch Installation
  - Highpoint
  - Ledbetter
  - Reidland
  - Husband
  - Smithland
- In progress upgrades
  - 69 Breaker and relay replacement
    - Little Union
    - Husband Rd
    - Coleman Rd
  - Krebs substation rebuild

#### Fiber:

- BREC/JPEC Fiber Buildout 2020-21
  - Livingston Sub to McCracken Sub: 73.87/78.93 Miles. **Completed: 93.6%**
  - Livingston Sub to Grand Rivers: 7.14 Miles
  - St. Johns to Kansas: 8.62 Miles
  - **2020-21 Total: 73.87/ 94.69 Miles. Completed: 78%**



# OPERATIONS & TECHNICAL SERVICES



# Questions?



# Jackson Purchase Energy Cooperative

Engineering, Technical Services &  
Operations  
July 2021



# JACKSON PURCHASE ENERGY

## Strategic Initiatives



1. **Safety** – instill a culture of safety throughout the entire organization as it applies to cooperatives
2. **Member/Community Relations** – develop strategic communications plan that will increase presence and standing within the communities we serve and keep members better informed
3. **Facilities** – evaluate future options for office and warehouse space
4. **System Operations and Member Support Efficiencies** – continue to make improvements to system reliability and maximize the efficient use of the cooperative’s assets
5. **Economic Development** – determine how the cooperative may be able to aid in local economic development.



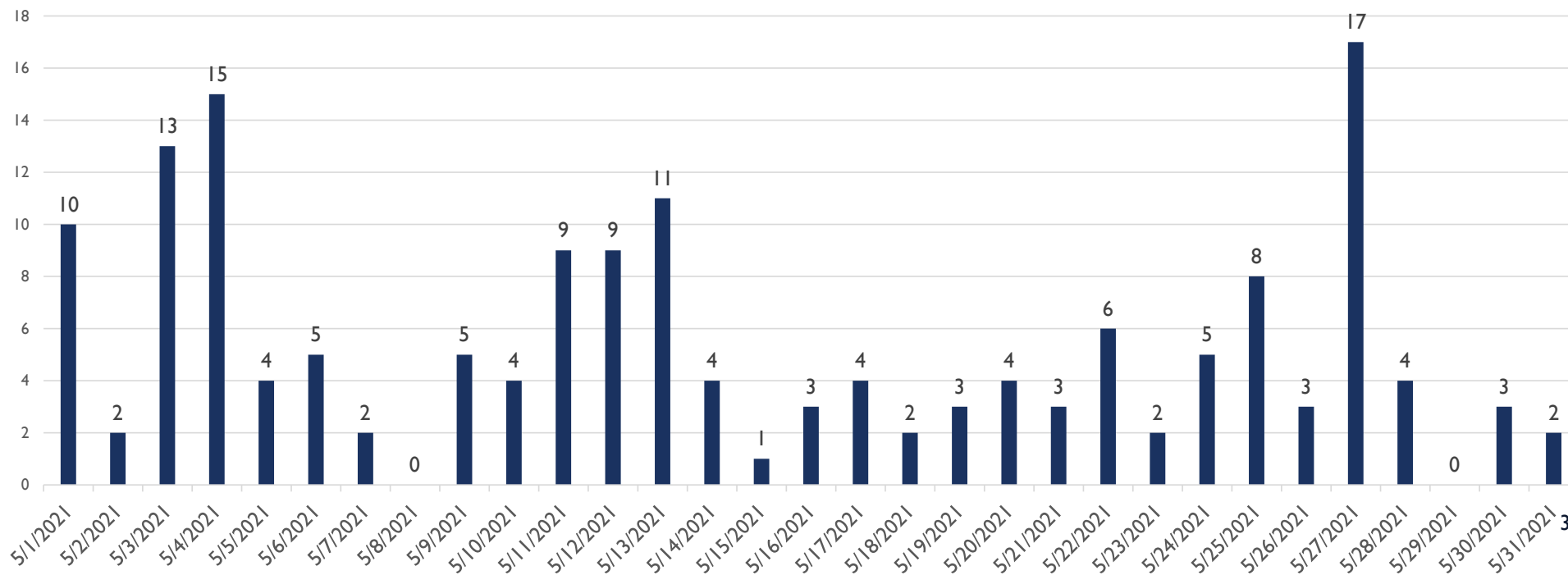


# OPERATIONS/RELIABILITY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

### May Outages by Day



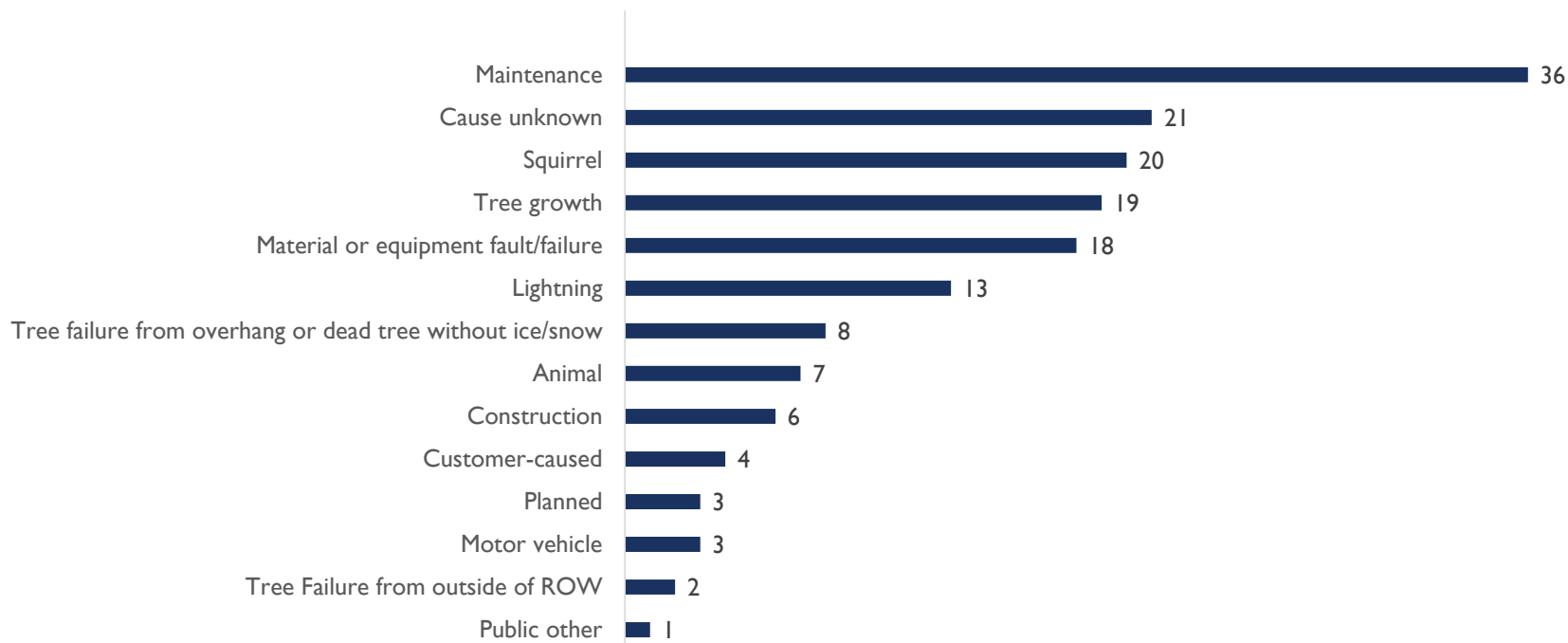
# OPERATIONS/RELIABILITY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



Strategic Initiative 4

May Outage Causes





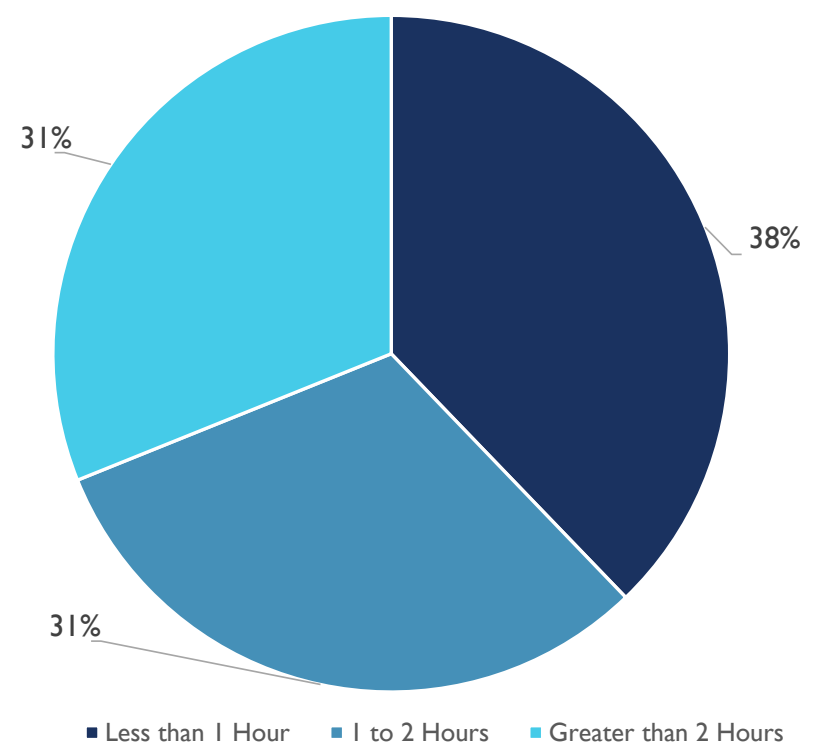
# OPERATIONS/RELIABILITY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

### Outage Duration

Average Outage Restoration / hour 46 minutes





## OPERATIONS

### STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

#### 2021 ROW PLAN

		Circuit	Take Downs	Total
Little Union	Airport	\$129,791.00	\$21,677.75	\$151,468.75
Krebs	Clinton Rd	\$337,364.00	\$79,766.75	\$417,130.75
New York	Wickliffe	\$400,124.00	\$52,587.00	\$452,711.00
			Total	\$1,021,310.50
			Budget	\$1,490,840.00
Cost Per Mile	\$12,766.38		Difference	469,529.50

- Approximately 80 Circuit Miles
- As the budget allows, we will increase circuit cutting
- Short term contract with Townsend
- 2 Townsend hourly crews
- Spray all substations
- We will begin scouting for 2022 circuits
- Working with BREC on ROW plan



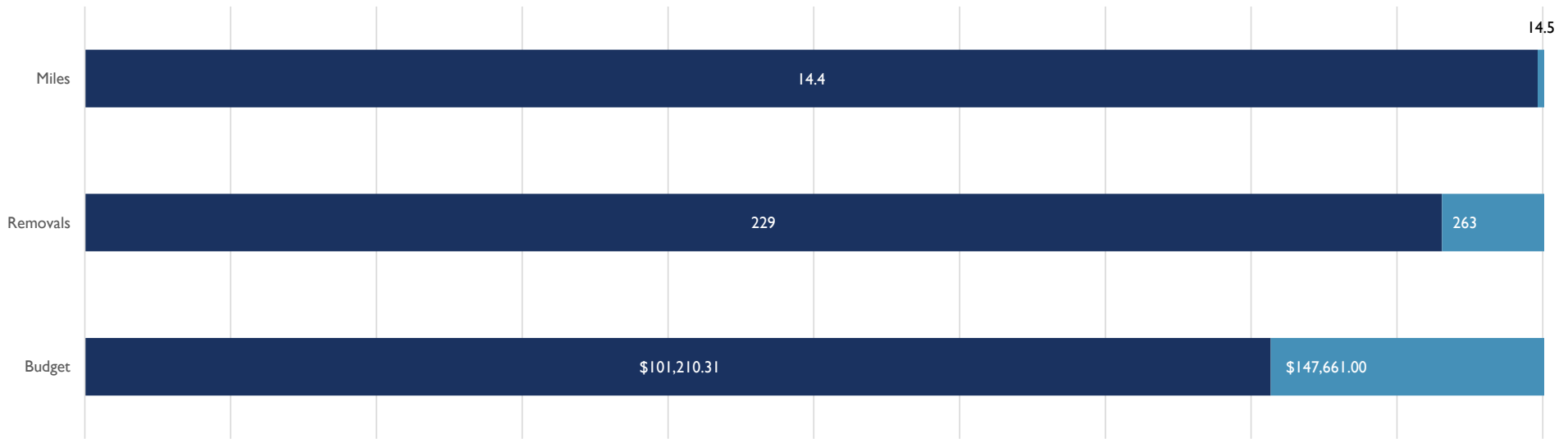
# OPERATIONS

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

### 2021 Circuit Cutting

3901 Airport Circuit



\*budget completed total is less 10%\*

■ Completed ■ Total



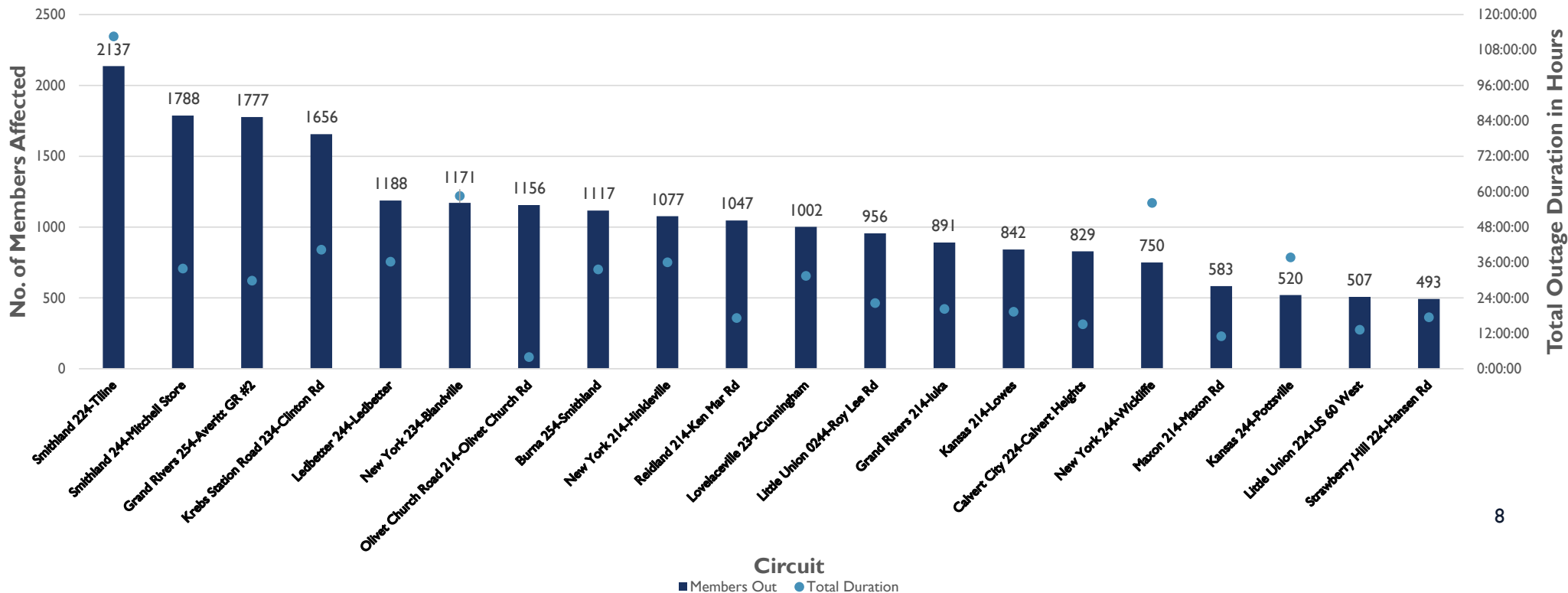
# OPERATIONS

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Created 6-2021

Strategic Initiative 4

20 Worst Circuits with Members Affected by ROW Outages Last 4 Years



## OPERATIONS

### STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



*Strategic Initiative 4*

### Summary

- Prior to 2020 JPEC was only trimming ROW and cutting “hot spots”
- 30,944 meters have experienced a ROW outage in the last 4 years
- Total duration of these outages 4,826,791 minutes (80,446 Hours)
- Average duration of outage 1 hour 50 minutes
- Approximately 1800 miles of overhead primary conductor
- In order to maintain a 5-year cycle we need to cut 350 – 400 miles annually
- Based on 2020 and 2021 actual ROW bids the average cost per mile is \$12,033
- In order to cut on a 5-year rotation we need to budget \$4.4 million per year
- That’s an increase of \$3 million from 2021 budget



# OPERATIONS

STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

*Strategic Initiative 4*

**2022**

Circuit Cutting					Circuit Herbicide Application		
Substation/Circuit	Members Out	Circuit Miles	Members Count	Cost Estimate	Substation/Circuit	Cost Estimate	
Kansas 214-Lowes	842	40.1		460 \$ 481,200.00	Burna 254-Smithland	\$ 7,062.50	
Ledbetter 244-Ledbetter	1188	27.5		1033 \$ 330,000.00	Loveland 234-Cunningham	\$ 5,687.50	
Little Union 224-US 60 West	507	15.9		481 \$ 190,800.00	Burna 214-Hampton	\$ 1,250.00	
Olivet Church Road 214-Olivet Church Rd	1156	3.4		573 \$ 40,800.00	Burna 244-Salem	\$ 4,925.00	
Reidland 214-Ken Mar Rd	1047	7.8		333 \$ 93,600.00	Loveland 214-Blandville	\$ 1,887.50	
Smithland 214-Smithland	437	13.8		403 \$ 165,600.00	Loveland 224-Loveland	\$ 4,600.00	
Grand Rivers 214-Iuka	891	36.1		319 \$ 433,200.00	Ragland 214-Monkeys Eyebrow	\$ 5,187.50	
Grand Rivers 254-Averitt GR #2	1777	18		663 \$ 216,000.00	Krebs Station Road 234-Clinton Rd	\$ 3,575.00	
Little Union 244-Roy Lee Rd	956	25.6		476 \$ 307,200.00	Little Union 214-Airport	\$ 1,800.00	
New York 214-Hinkleville	1077	32.6		280 \$ 391,200.00	New York 244-Wickliffe	\$ 4,587.50	
New York 234-Blandville	1171	21.9		229 \$ 262,800.00			
Smithland 224-Tiline	2137	85		596 \$ 1,020,000.00	All Substations Bare ground Spray	\$ 15,390.00	
Smithland 244-Mitchell Store	1788	38.6		407 \$ 463,200.00			
		<b>2022 Total Miles</b>	<b>366.3</b>	<b>2022 Estimated Circuit Cutting Budget</b>	<b>\$ 4,395,600.00</b>	<b>2022 Total Miles</b>	<b>\$ 55,952.50</b>



## ENGINEERING

### STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



#### *Strategic Initiative 4*

### **Engineering**

- Assembly Unit Refinement – Both OH and URD assemblies
- CIAC Policy Approval
- Vulcan Substation – Loading analysis for lock construction
- CWP Jobs
- Krebs Substation – Design will start in Fall
- KU Crossing – Awaiting TVA requirements for new easement

## ENGINEERING

### STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



#### *Strategic Initiative 4*

### **Staking Projects**

- Cheddar's – Installation of primary underground and padmount is completed. Waiting for service.
- Barkley Regional Airport - Customer is installing conduit system.
- Eagle Landing Subdivision (Grand Rivers) - Customer is finalizing grade.
- Work Plan Jobs - Line relocations, re-phasing, 1P-3P conversions (Groves).
- Pole Replacements - Recommended change-outs from line inspection.



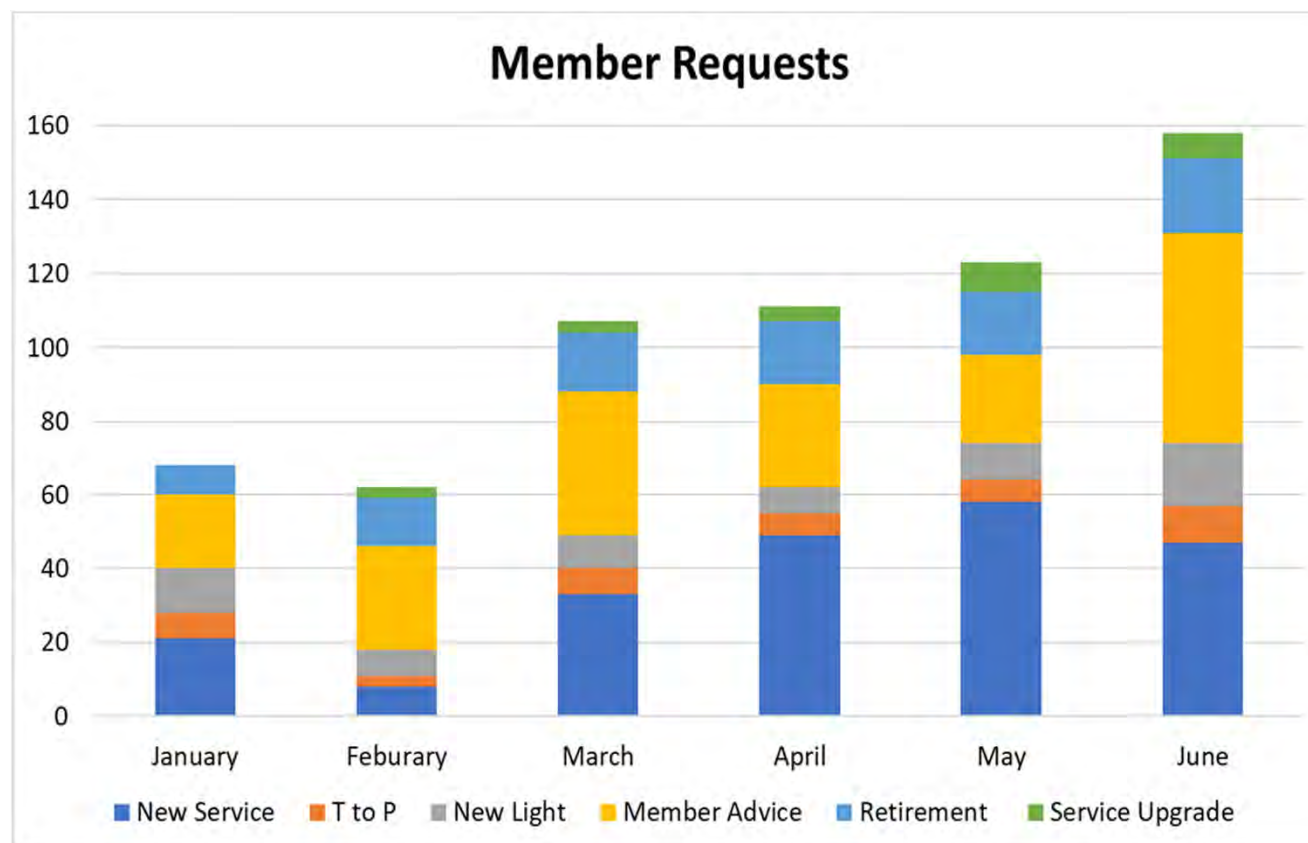
## ENGINEERING

### STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

#### Member Requests

- Prioritized
- Avg response time of 1-2 days
- Approx. 35 requests/staker each month



## ENGINEERING

### STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



#### *Strategic Initiative 4*

### **2021 Construction Work Plan Projects**

- **Calvert City Substation, Gilbertsville 4303**
  - Status: Completed
- **Krebs Road Substation, Clinton Rd 5003**
  - Status: Design Stage (Phase I of 3)
  - Notes: First ½ mile has been designed and staked. Ready for construction after highway permit approval.
- **Culp Substation, Possum Trot 42234**
  - Status: Design Stage (Phase I of 2)
  - Notes: Phase I is staked. Finalizing work order and landowner permission before submitting for construction.
- **New York Substation, Slater 47254**
  - Status: Not Started
- **New York Substation, Wickliffe 47244**
  - Status: Not Started

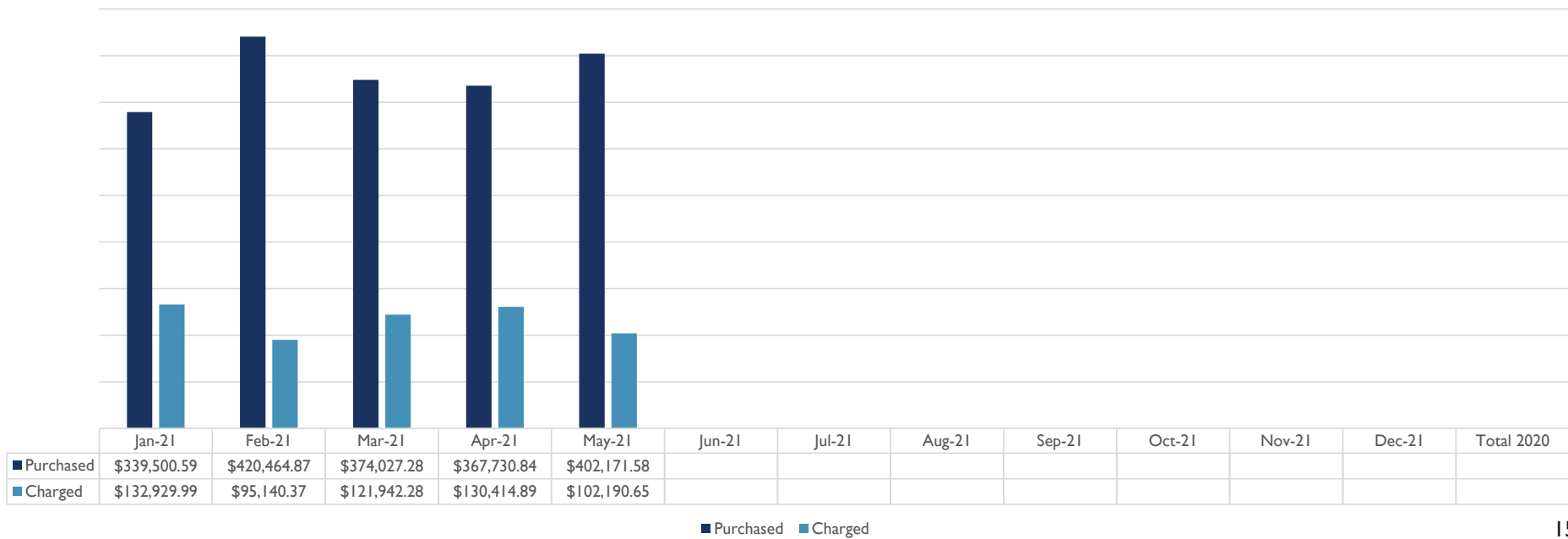
# WAREHOUSE/INVENTORY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



Strategic Initiative 4

Materials Purchased

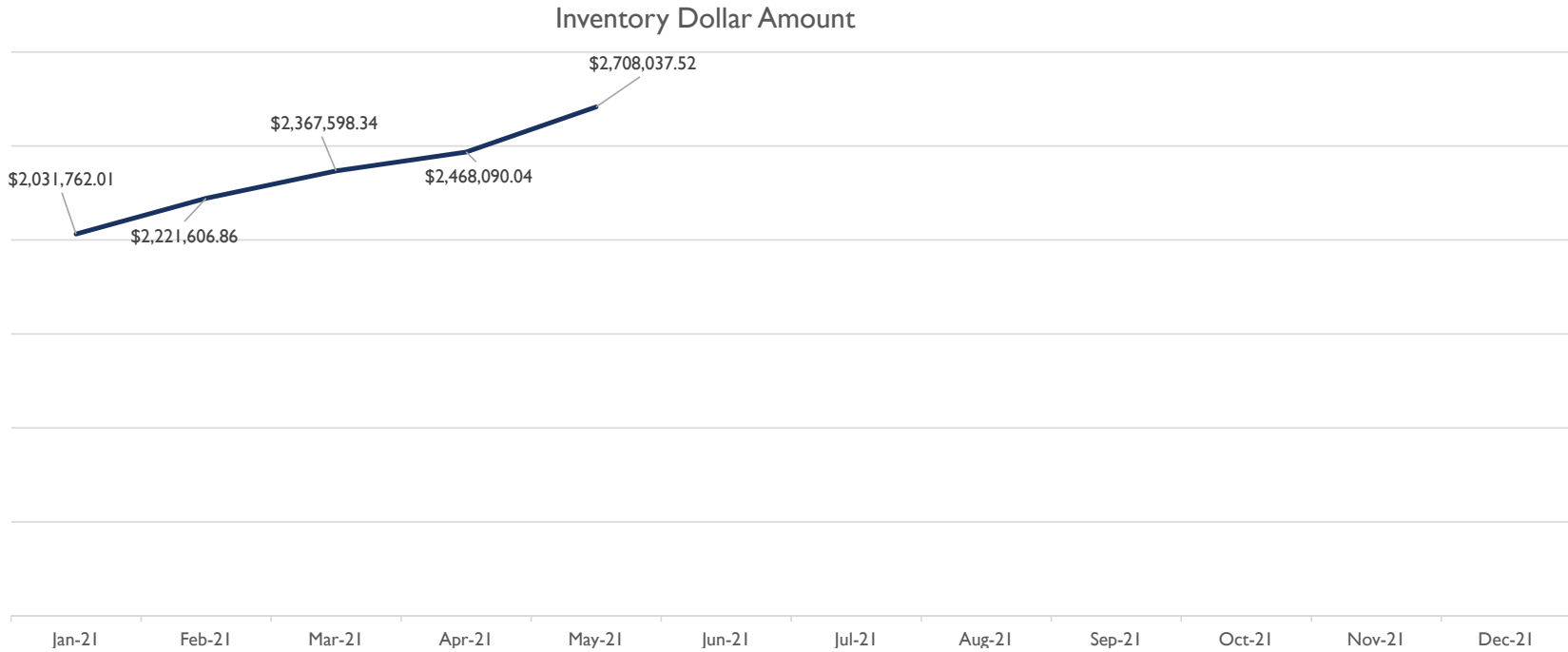


# WAREHOUSE/INVENTORY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



Strategic Initiative 4



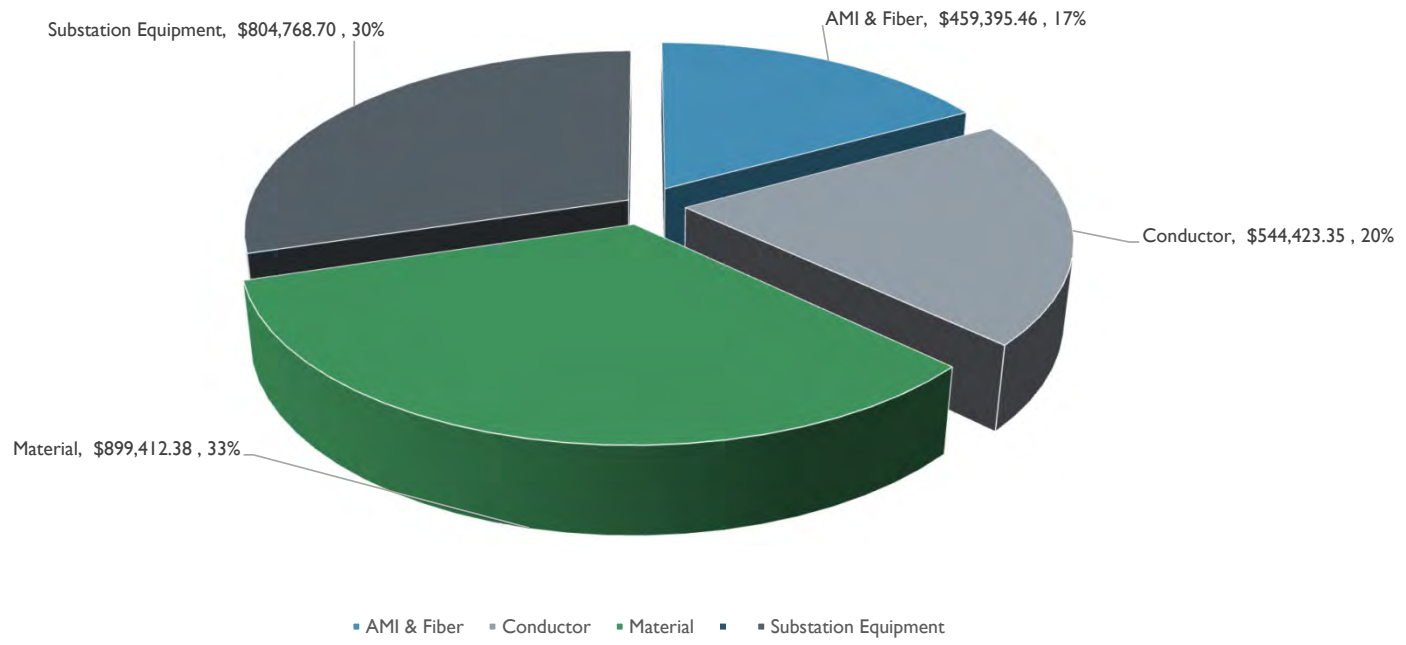


# WAREHOUSE/INVENTORY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

Inventory Percentages

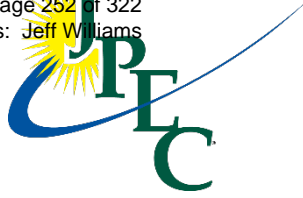


## OPERATIONS & TECHNICAL SERVICES



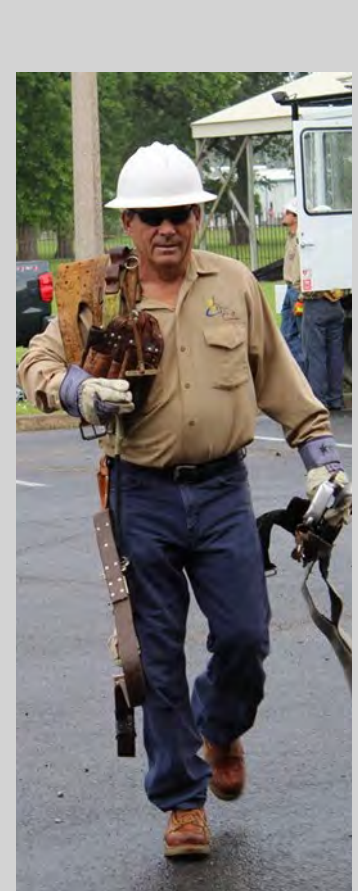
# Questions?



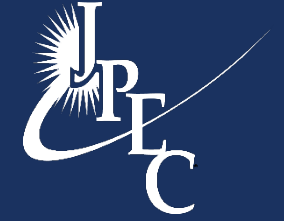


# Jackson Purchase Energy Cooperative

Engineering, Technical Services & Operations  
August 2021

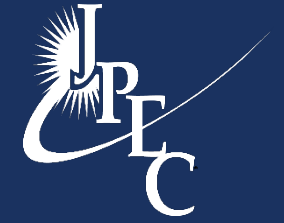


# JACKSON PURCHASE ENERGY



## Strategic Initiatives

1. **Safety** – instill a culture of safety throughout the entire organization as it applies to cooperatives
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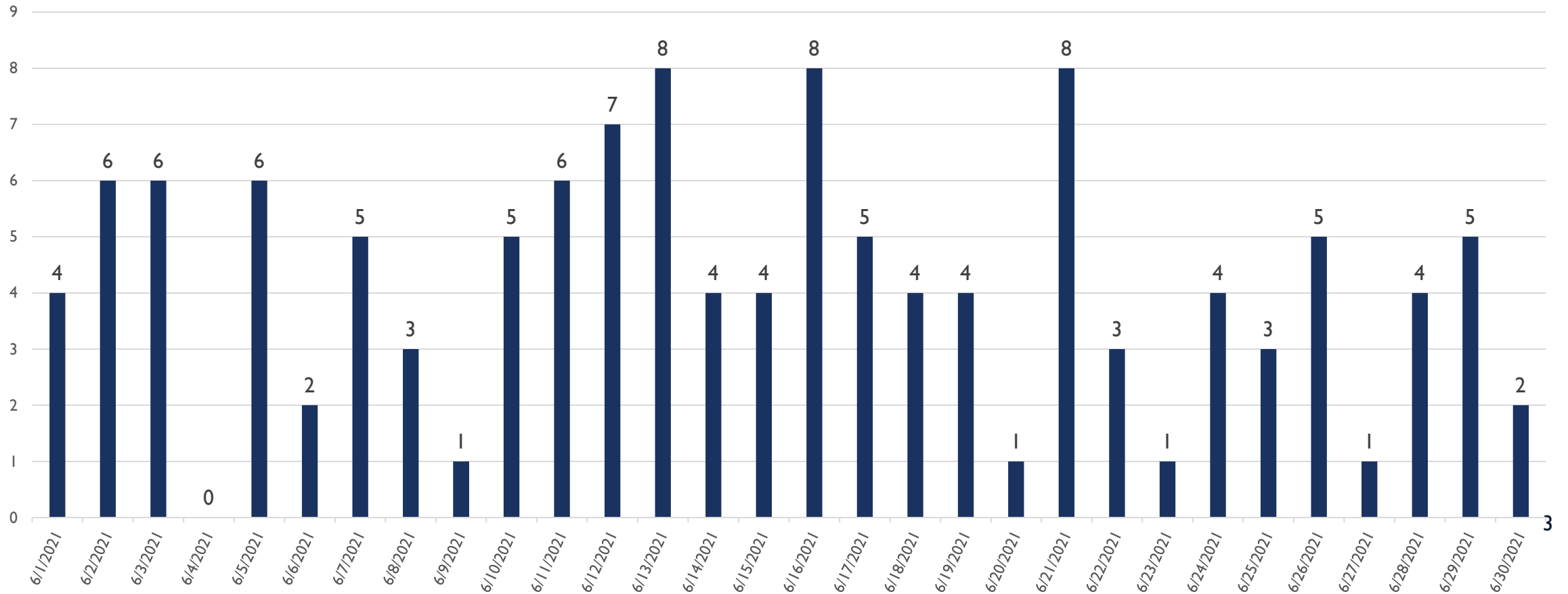


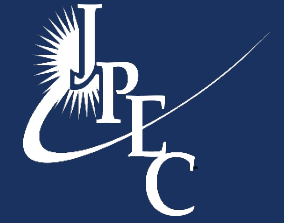
# OPERATIONS/RELIABILITY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

June Outages By Day



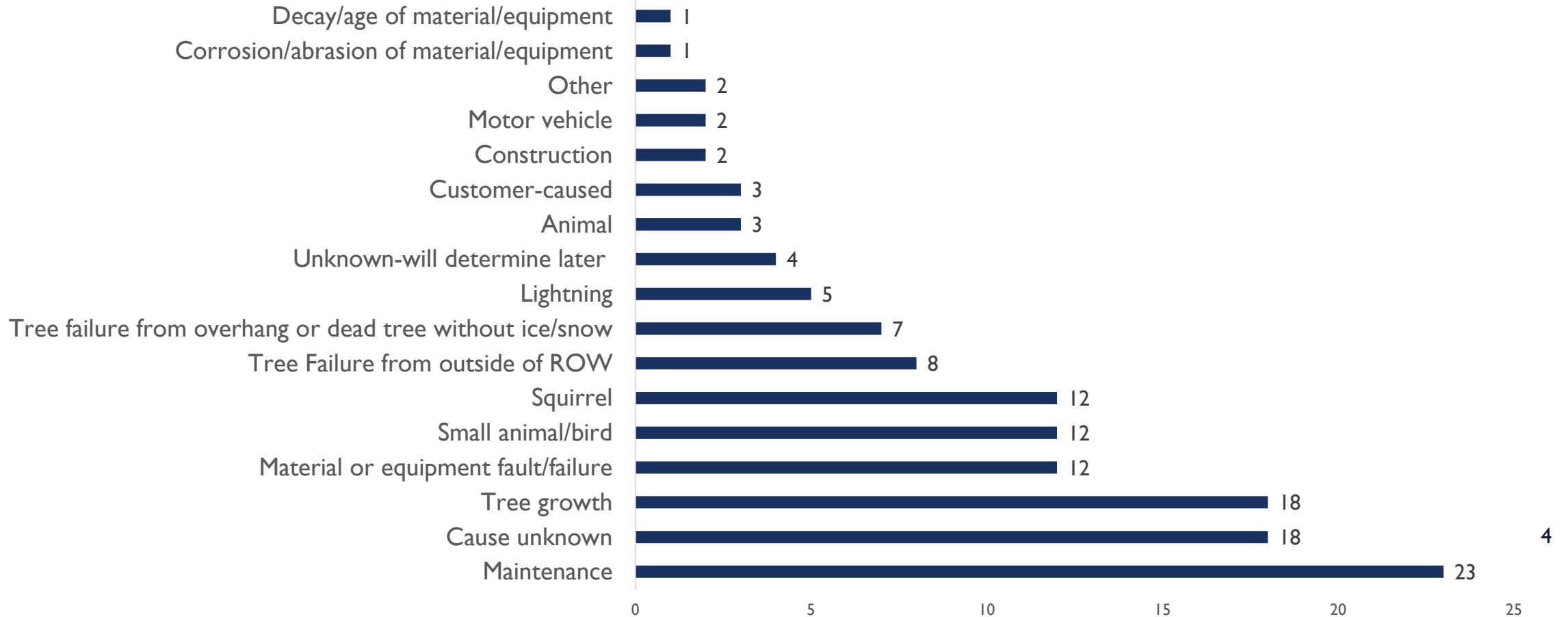


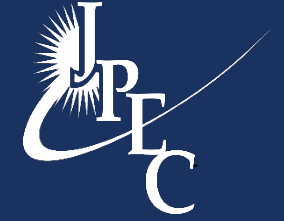
# OPERATIONS/RELIABILITY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

### June Outage Causes



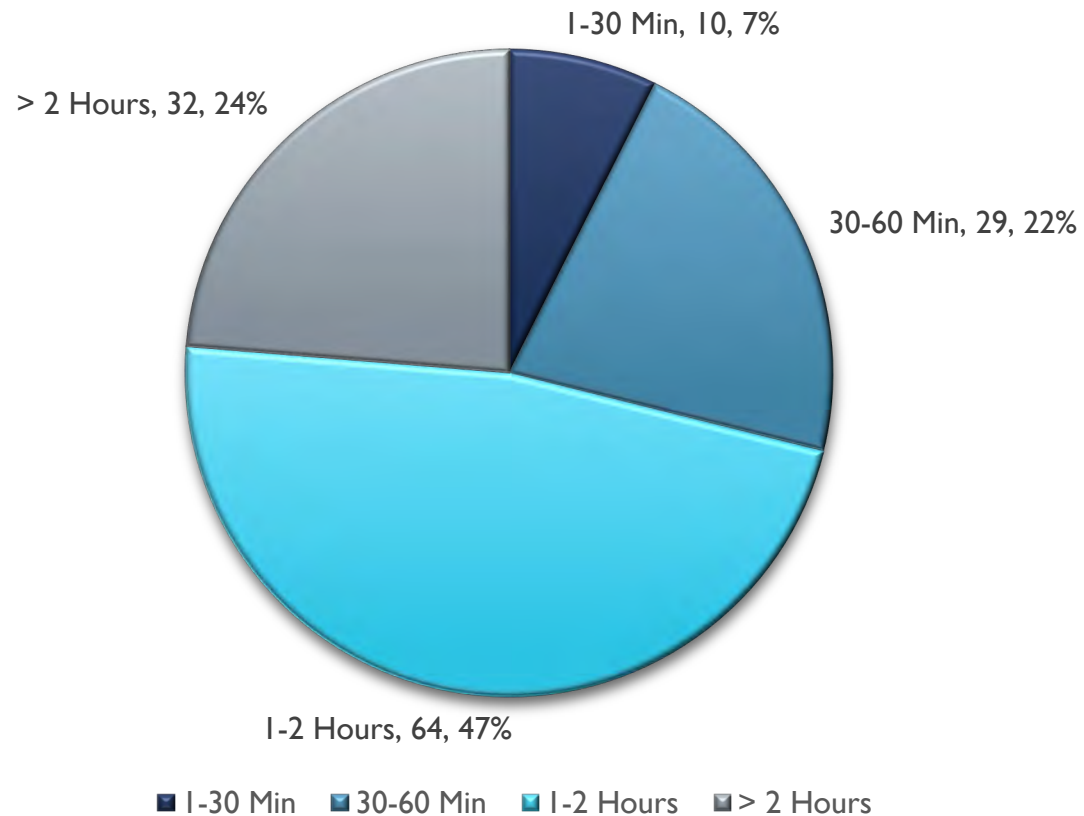


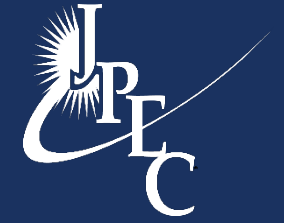
# OPERATIONS/RELIABILITY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

### Outage Duration





# OPERATIONS

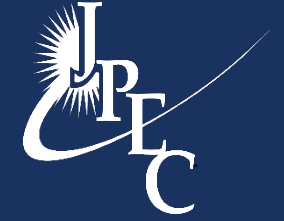
## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

### 2021 ROW PLAN

		Circuit	Take Downs	Total
Little Union	Airport	\$129,791.00	\$21,677.75	\$151,468.75
Krebs	Clinton Rd	\$337,364.00	\$79,766.75	\$417,130.75
New York	Wickliffe	\$400,124.00	\$52,587.00	\$452,711.00
			Total	\$1,021,310.50
			Budget	\$1,490,840.00
Cost Per Mile	\$12,766.38		Difference	469,529.50

- Approximately 80 Circuit Miles
- As the budget allows, we will increase circuit cutting
- Short term contract with Townsend
  
- 2 Townsend hourly crews
- Spray all substations
  
- We will begin scouting for 2022 circuits
- Working with BREC on ROW plan



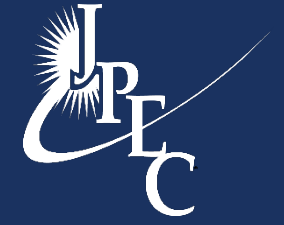
## OPERATIONS

### STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

#### Strategic Initiative 4

## Summary

- Prior to 2020 JPEC was only trimming ROW and cutting “hot spots”
- 30,944 meters have experienced a ROW outage in the last 4 years
- Total duration of these outages 4,826,791 minutes (80,446 Hours)
- Average duration of outage 1 hour 50 minutes
- Approximately 1800 miles of overhead primary conductor
- In order to maintain a 5-year cycle we need to cut 350 – 400 miles annually
- Based on 2020 and 2021 actual ROW bids the average cost per mile is \$12,033
- In order to cut on a 5-year rotation we need to budget \$4.4 million per year
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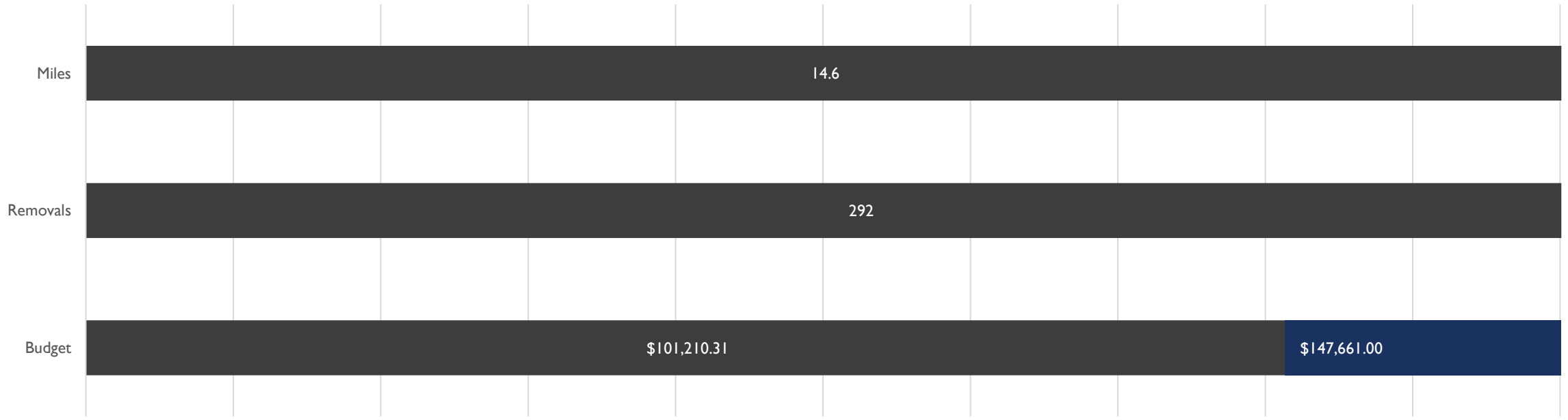


# OPERATIONS

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

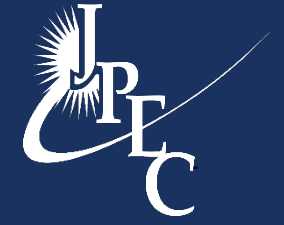
### Airport Circuit



\*budget completed total is less 10%\*

■ Completed ■ Total





# OPERATIONS

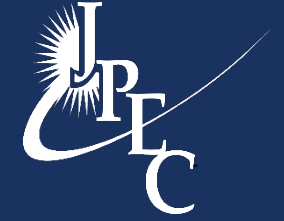
## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

### New York Circuit



■ Completed ■ Total



## ENGINEERING

### STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

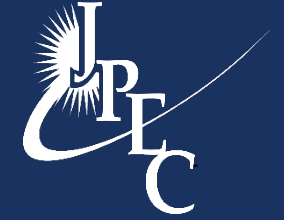
#### *Strategic Initiative 4*

### **Engineering**

- Assembly Unit Refinement – OH and URD assemblies
- System Model Repair
- Net Metering
- CWP Jobs
- Tap Protection
- Krebs Substation – Design will start in Fall
- 2Yr. Line Inspection – Completed in 2-3 weeks

## ENGINEERING

### STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



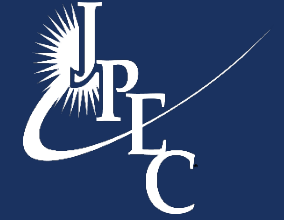
#### *Strategic Initiative 4*

### **Staking Projects**

- Cheddar's – Completed
- Barkley Regional Airport – Line construction began 8/16
- Eagle Landing Subdivision (Grand Rivers) – Customer is finalizing grade. Trenching to begin soon.
- KU Crossing – Awaiting TVA requirements for new easement
- Copperweld Reconductor – Burna and Lovelaceville circuits
- Pole Replacements – Recommended change-outs from line inspection

## ENGINEERING

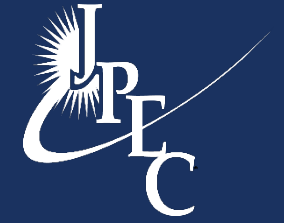
### STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



#### *Strategic Initiative 4*

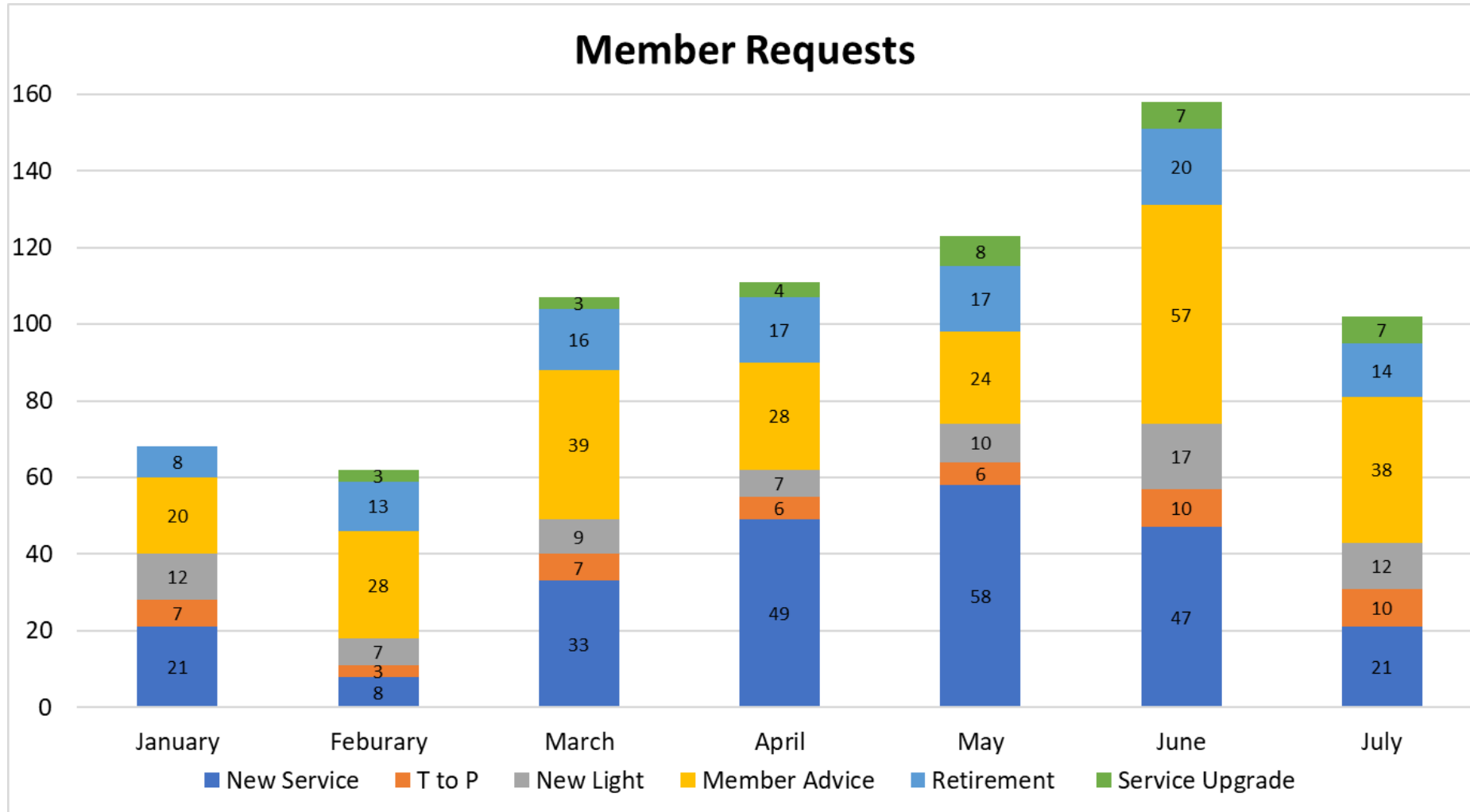
### **2021 Construction Work Plan Projects**

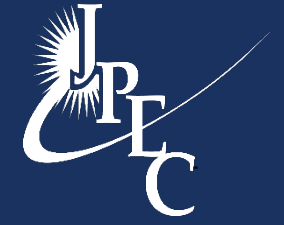
- **Calvert City Substation, Gilbertsville 43234**
  - Status: Completed
- **Krebs Road Substation, Clinton Rd 50234**
  - Status: Construction in progress (Phase 1 of 3)
  - Notes: Phase 2 is being designed/staked
- **Culp Substation, Possum Trot 42234**
  - Status: Design stage (Phase 1 and 2)
  - Notes: Phase 1 is staked and ready for construction. Staking of phase 2 has begun.
- **New York Substation, Slater 47254**
  - Status: Not Started
- **New York Substation, Wickliffe 47244**
  - Status: Not Started



# ENGINEERING

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

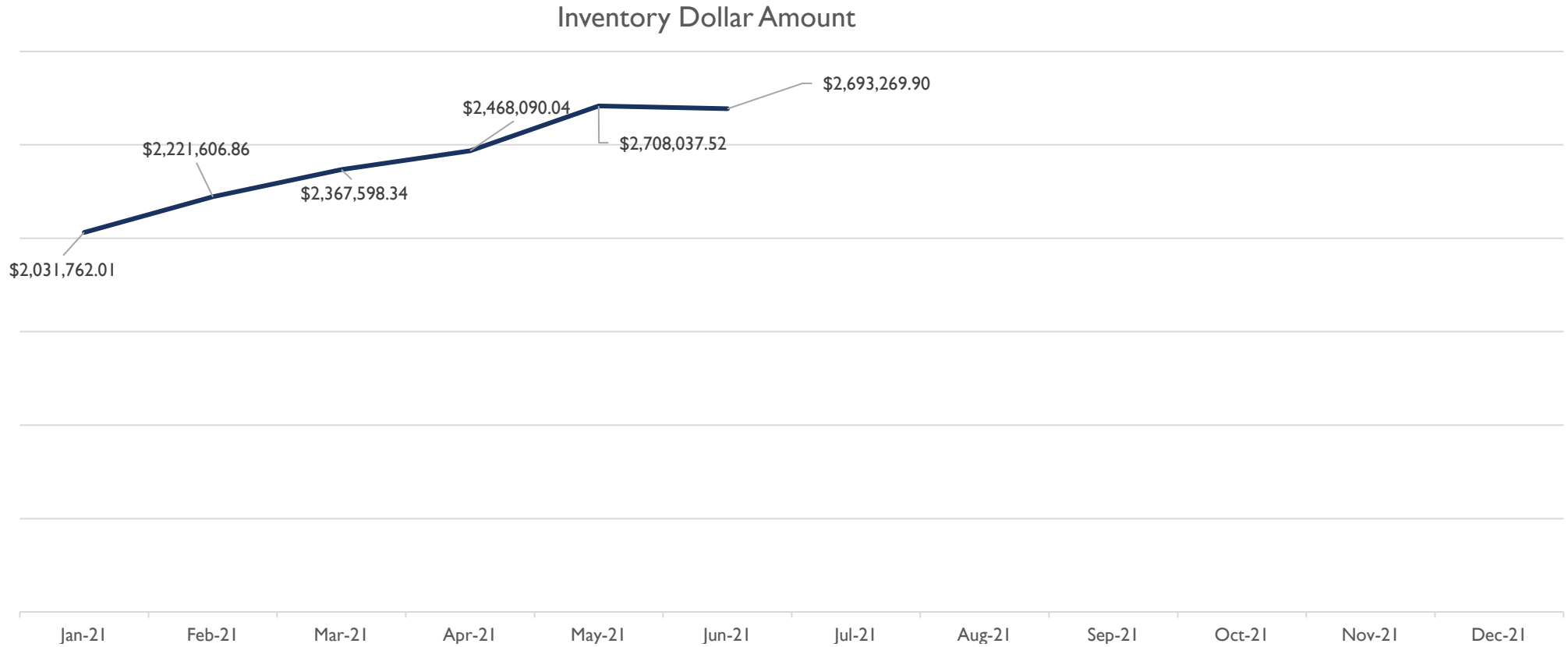


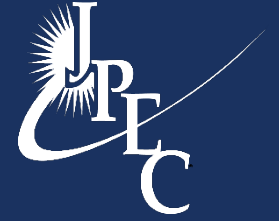


# WAREHOUSE/INVENTORY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4



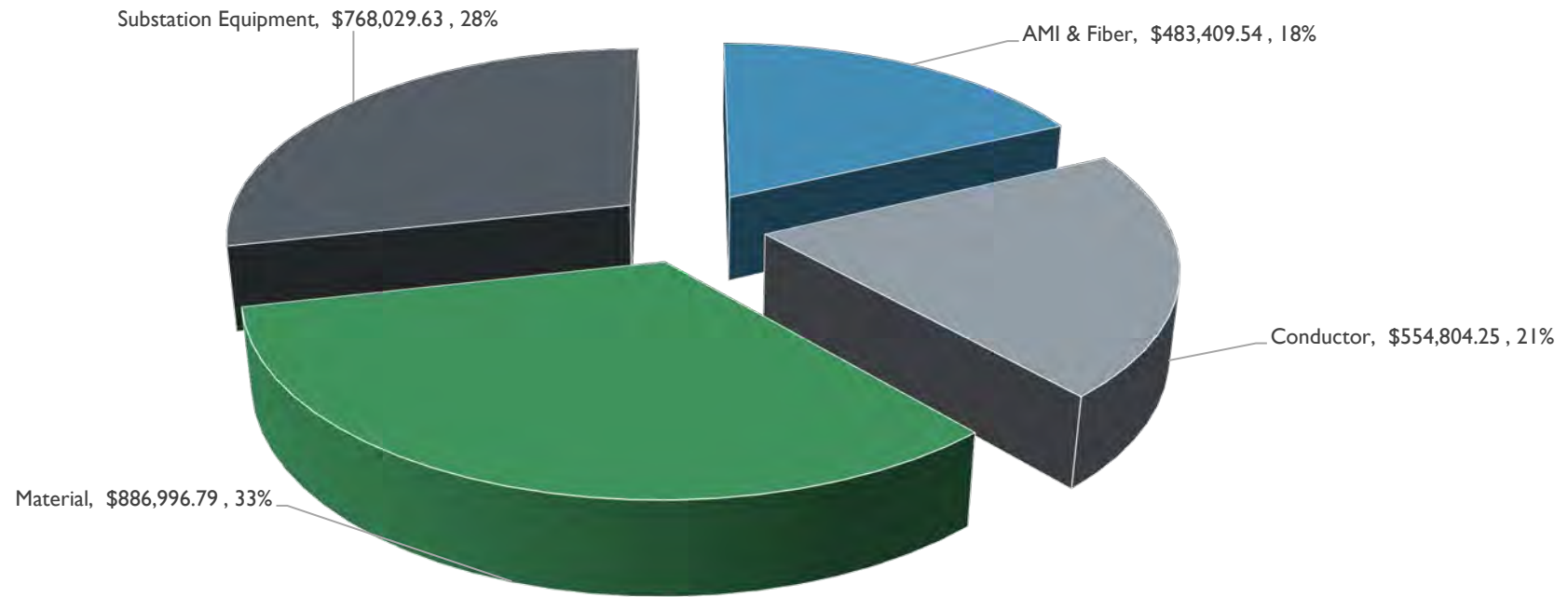


# WAREHOUSE/INVENTORY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

Inventory Percentages



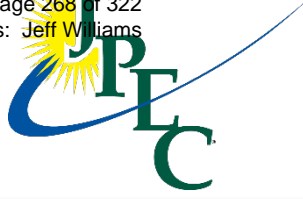
■ AMI & Fiber ■ Conductor ■ Material ■ Substation Equipment

# OPERATIONS & TECHNICAL SERVICES



# Questions?





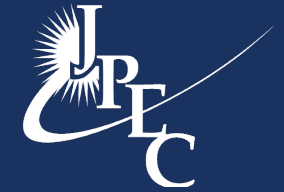
# Jackson Purchase Energy Cooperative

**Engineering, Operations &  
Technical Services**

September 2021



# JACKSON PURCHASE ENERGY

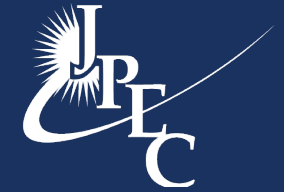


## Strategic Initiatives

1. **Safety** – instill a culture of safety throughout the entire organization as it applies to cooperatives
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4. **System Operations and Member Support Efficiencies** – continue to make improvements to system reliability and maximize the efficient use of the cooperative's assets
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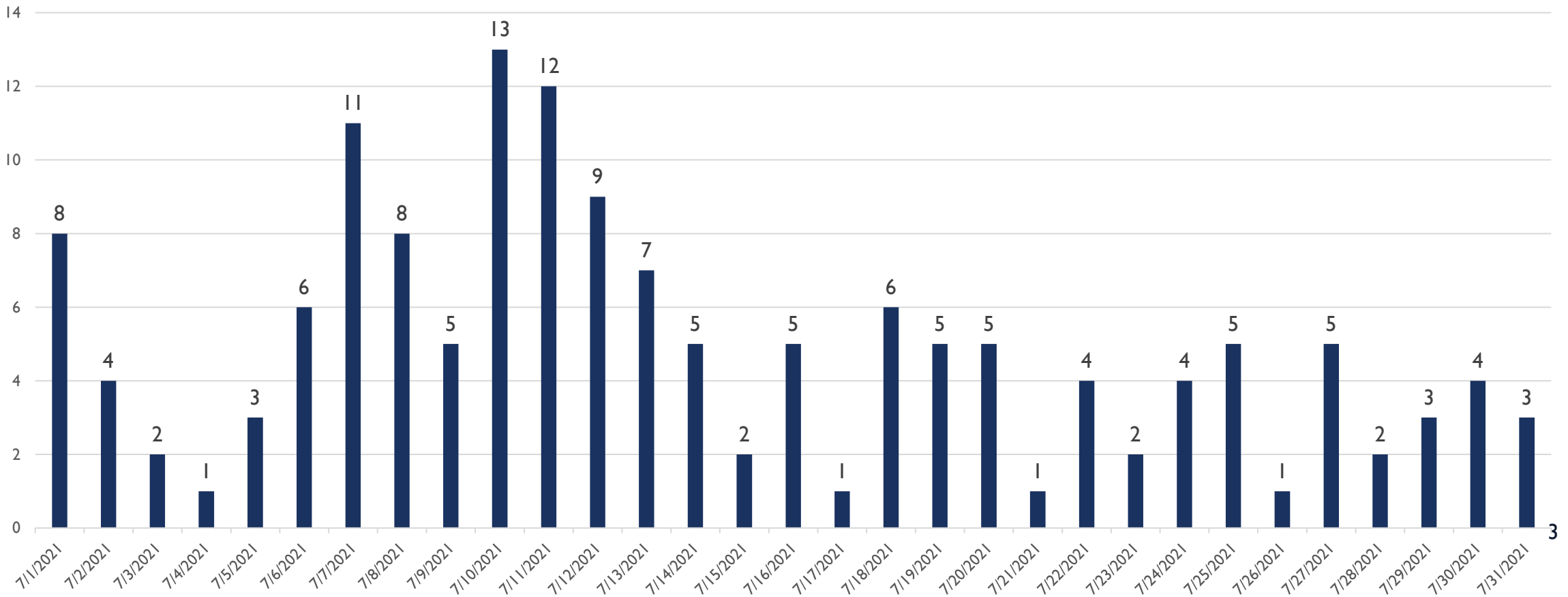
# OPERATIONS/RELIABILITY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



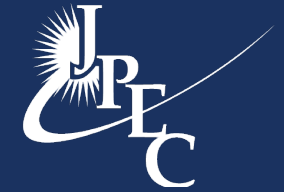
Strategic Initiative 4

July Outages by Day



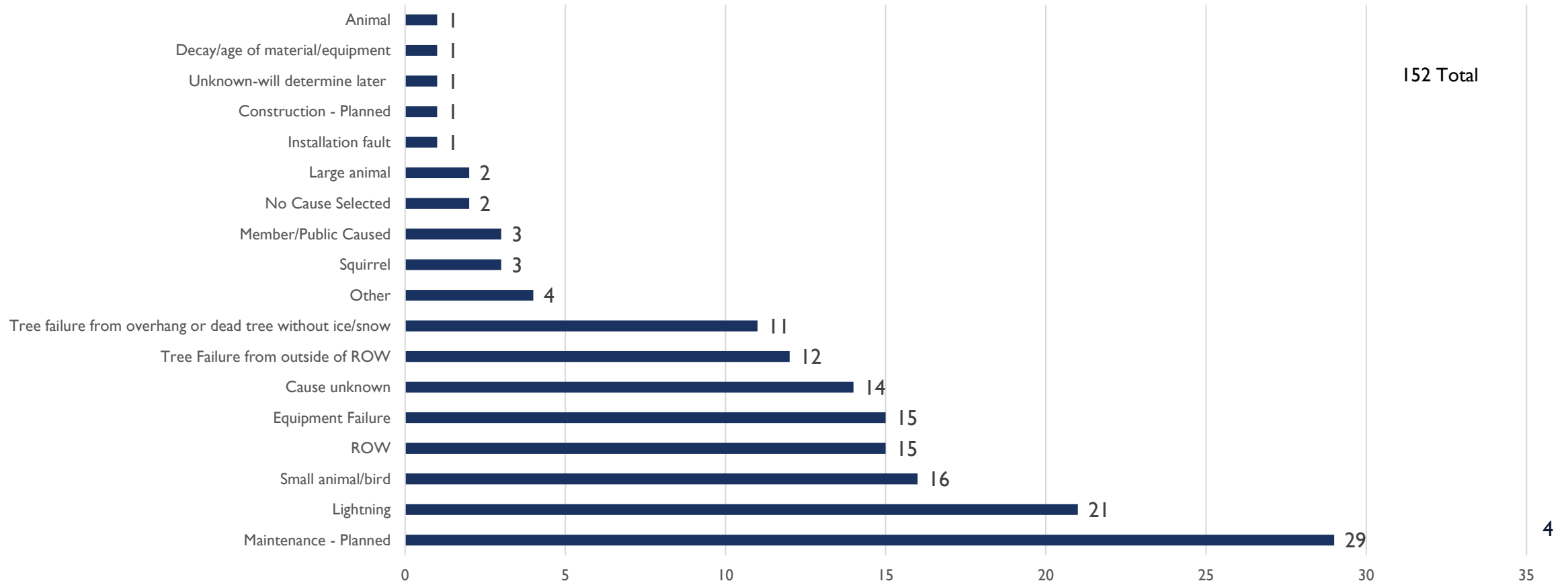
# OPERATIONS/RELIABILITY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



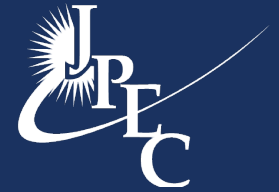
Strategic Initiative 4

### July Outage Causes



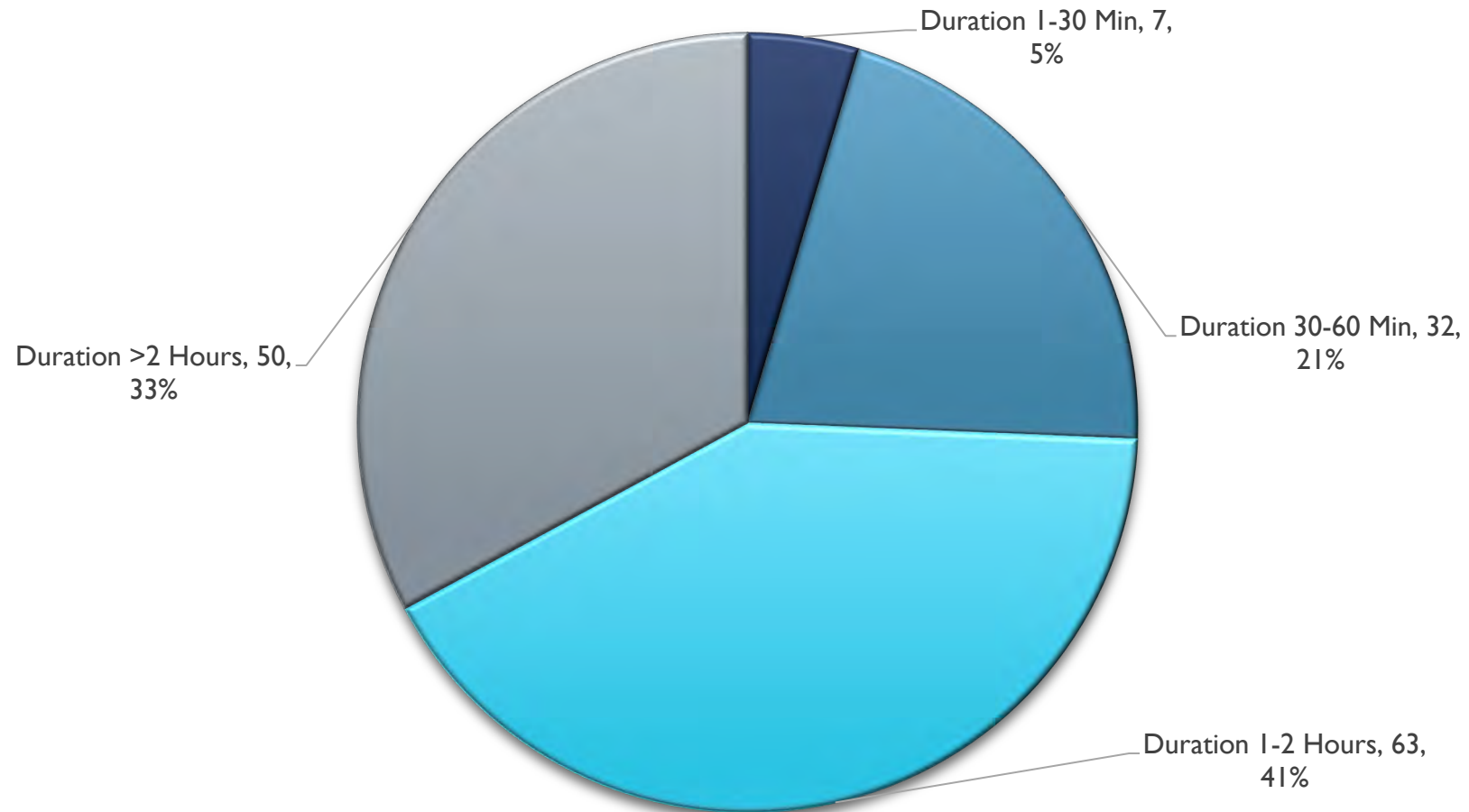
# OPERATIONS/RELIABILITY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



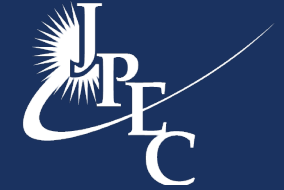
Strategic Initiative 4

### Outage Duration



# OPERATIONS

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



Strategic Initiative 4

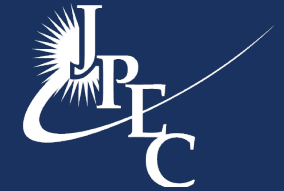
### 2021 ROW PLAN

		Circuit	Take Downs	Total
Little Union	Airport	\$129,791.00	\$21,677.75	\$151,468.75
Krebs	Clinton Rd	\$337,364.00	\$79,766.75	\$417,130.75
New York	Wickliffe	\$400,124.00	\$52,587.00	\$452,711.00
			Total	\$1,021,310.50
			Budget	\$1,490,840.00
Cost Per Mile	\$12,766.38		Difference	469,529.50

- Approximately 80 Circuit Miles
- As the budget allows, we will increase circuit cutting
- Short term contract with Townsend
  
- 2 Townsend hourly crews
- Spray all substations
  
- We will begin scouting for 2022 circuits
- Working with BREC on ROW plan

# OPERATIONS

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



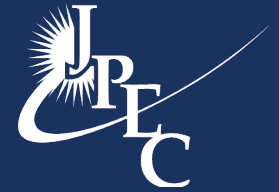
### Strategic Initiative 4

## Summary

- Prior to 2020 JPEC was only trimming ROW and cutting “hot spots”
- 30,944 meters have experienced a ROW outage in the last 4 years
- Total duration of these outages 4,826,791 minutes (80,446 Hours)
- Average duration of outage 1 hour 50 minutes
- Approximately 1800 miles of overhead primary conductor
- In order to maintain a 5-year cycle we need to cut 350 – 400 miles annually
- Based on 2020 and 2021 actual ROW bids the average cost per mile is \$12,033
- In order to cut on a 5-year rotation we need to budget \$4.4 million per year
- That’s an increase of \$3 million from 2021 budget

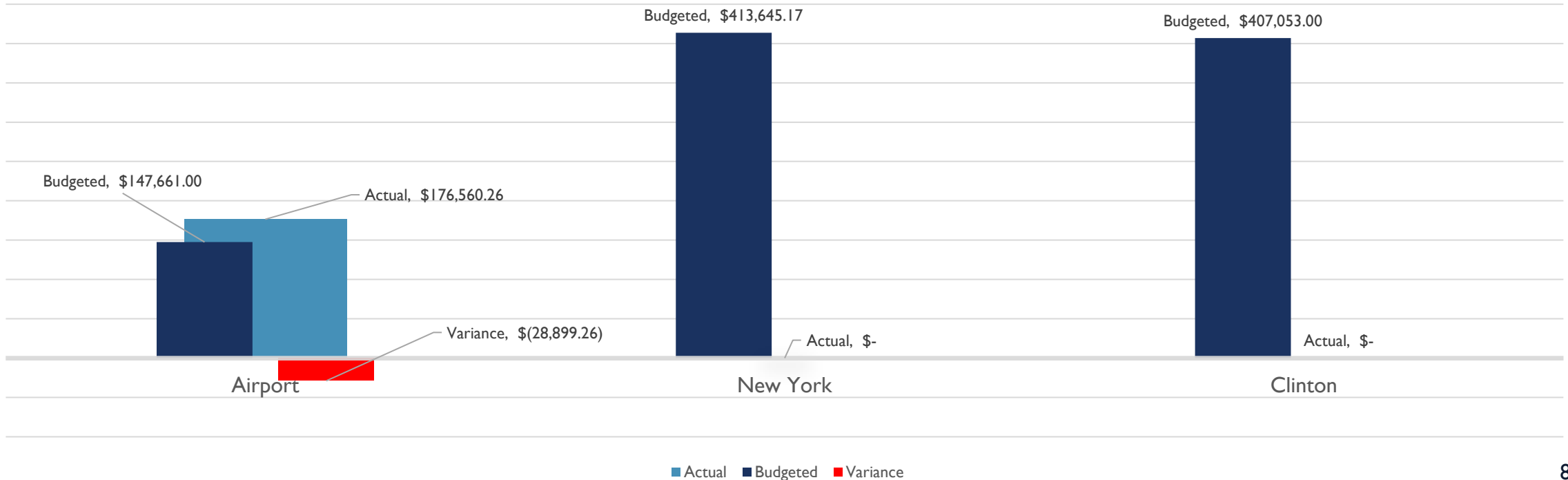
# OPERATIONS

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



Strategic Initiative 4

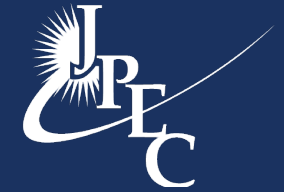
### Right of Way





# ENGINEERING

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



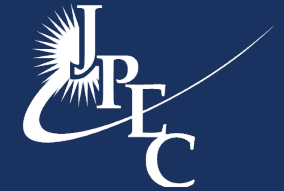
### *Strategic Initiative 4*

#### **Engineering**

- Assembly Unit Refinement – OH and URD assemblies
- System Model Repair
- Net Metering
- CWP Jobs
- Tap Protection
- Krebs Substation – Design will start in Fall
- 2Yr. Line Inspection – Completed in 2-3 weeks

## ENGINEERING

### STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



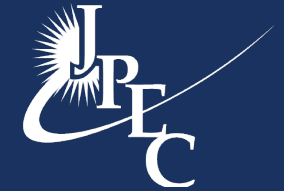
#### *Strategic Initiative 4*

### Staking Projects

- Cheddar's – Completed
- Barkley Regional Airport – Line construction began 9/13/2021.
- Eagle Landing Subdivision (Grand Rivers) – Customer is finalizing grade. Trenching to begin soon.
- KU Crossing – Awaiting TVA requirements for new easement
- Copperweld Reconductor – Burna and Lovelaceville circuits
- Pole Replacements – Recommended change-outs from line inspection

## ENGINEERING

### STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



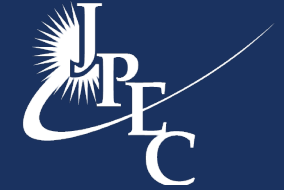
#### *Strategic Initiative 4*

### **2021 Construction Work Plan Projects**

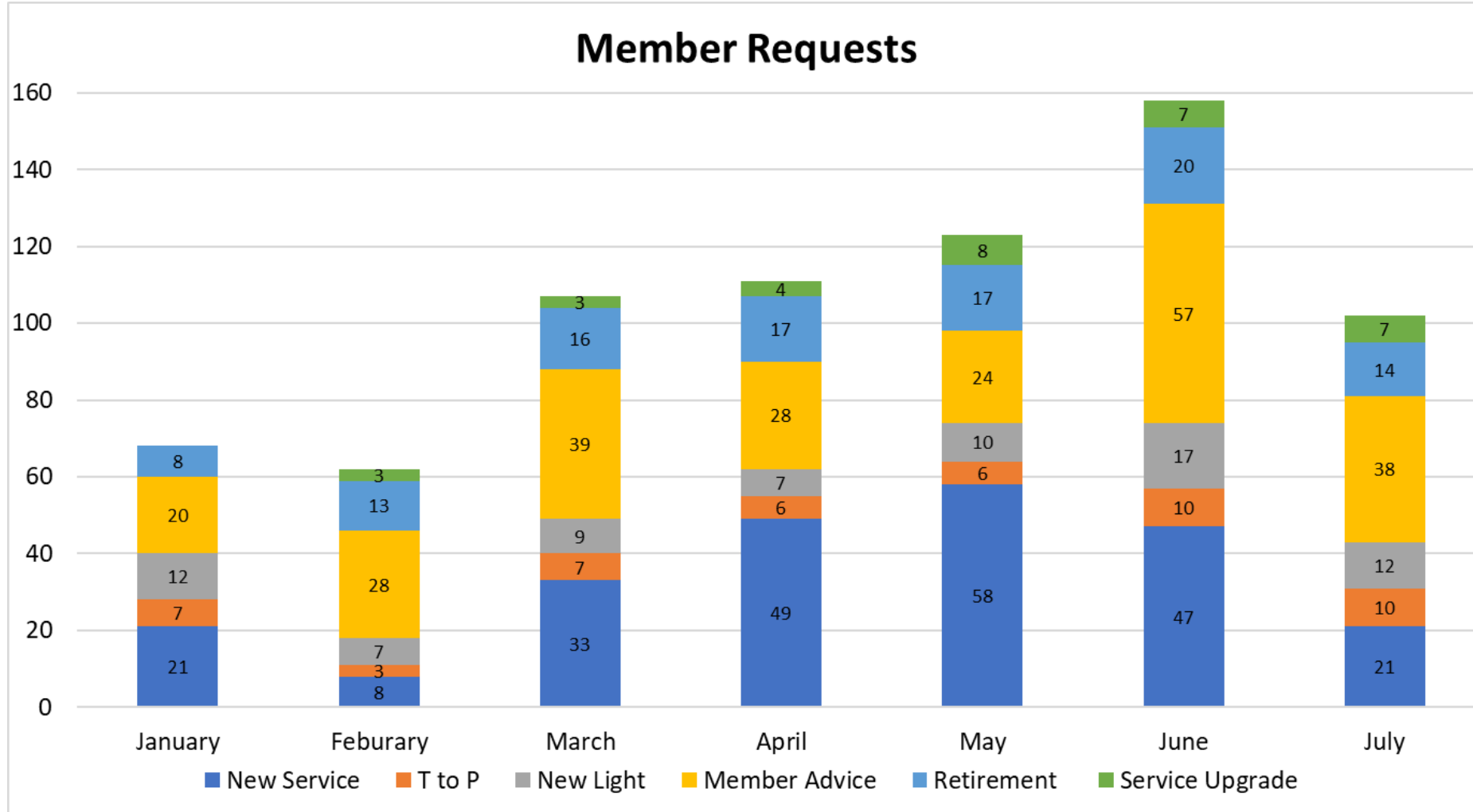
- **Calvert City Substation, Gilbertsville 43234**
  - Status: Completed
- **Krebs Road Substation, Clinton Rd 50234**
  - Status: Construction in progress (Phase 1 of 3)
  - Notes: Phase 2 is being designed/staked
- **Culp Substation, Possum Trot 42234**
  - Status: Design stage (Phase 1 and 2)
  - Notes: Phase 1 is staked and ready for construction. Staking of phase 2 has begun.
- **New York Substation, Slater 47254**
  - Status: Not Started
- **New York Substation, Wickliffe 47244**
  - Status: Not Started

# ENGINEERING

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



Strategic Initiative 4



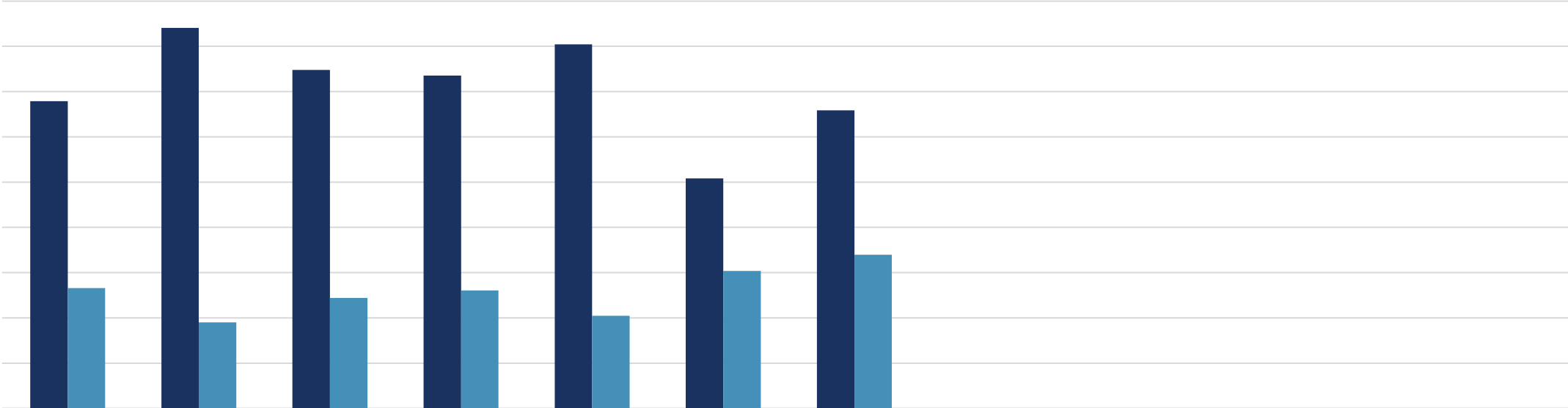
# WAREHOUSE/INVENTORY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



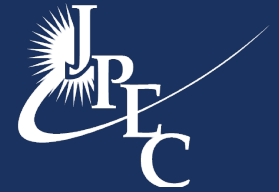
Strategic Initiative 4

Materials Purchased



	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
■ Purchased	\$339,500.59	\$420,464.87	\$374,027.28	\$367,730.84	\$402,171.58	\$253,968.37	\$329,246.05					
■ Charged	\$132,929.99	\$95,140.37	\$121,942.28	\$130,414.89	\$102,190.65	\$151,719.99	\$169,788.06					

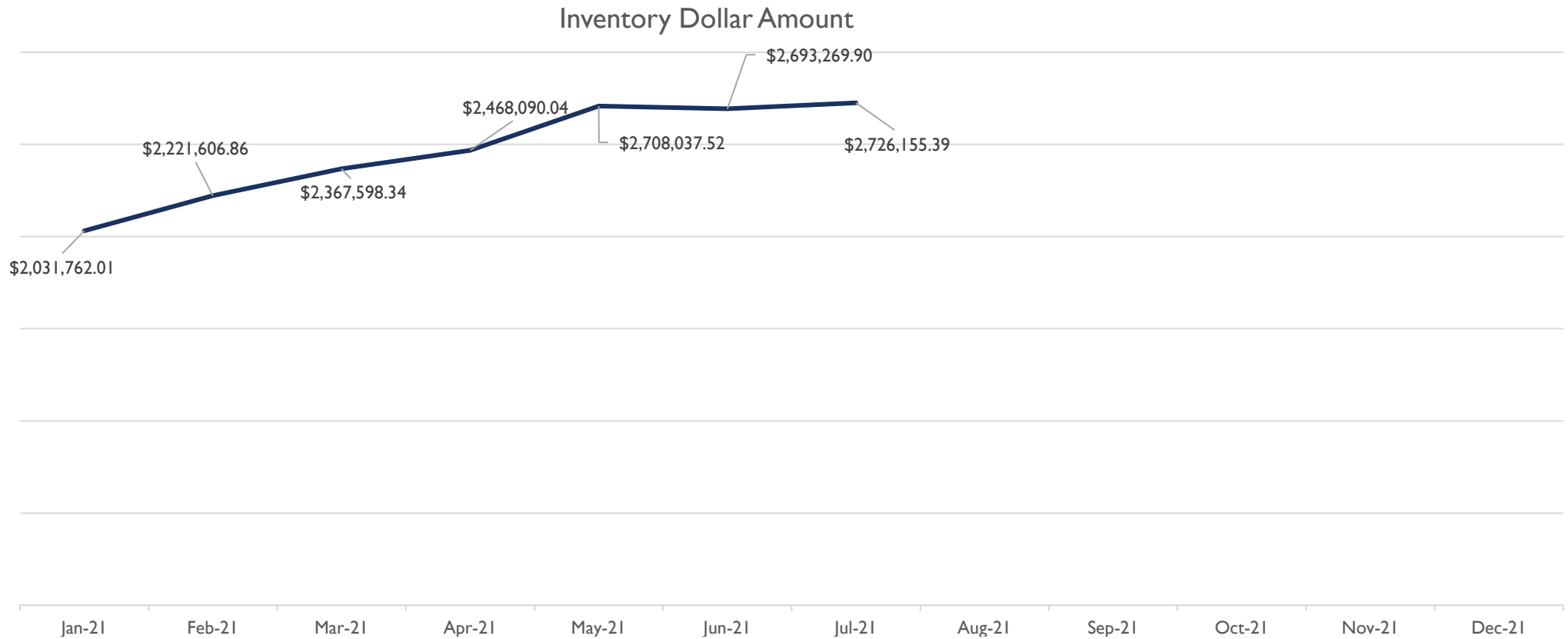
■ Purchased ■ Charged

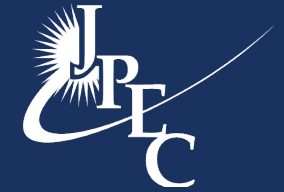


# WAREHOUSE/INVENTORY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

### Strategic Initiative 4



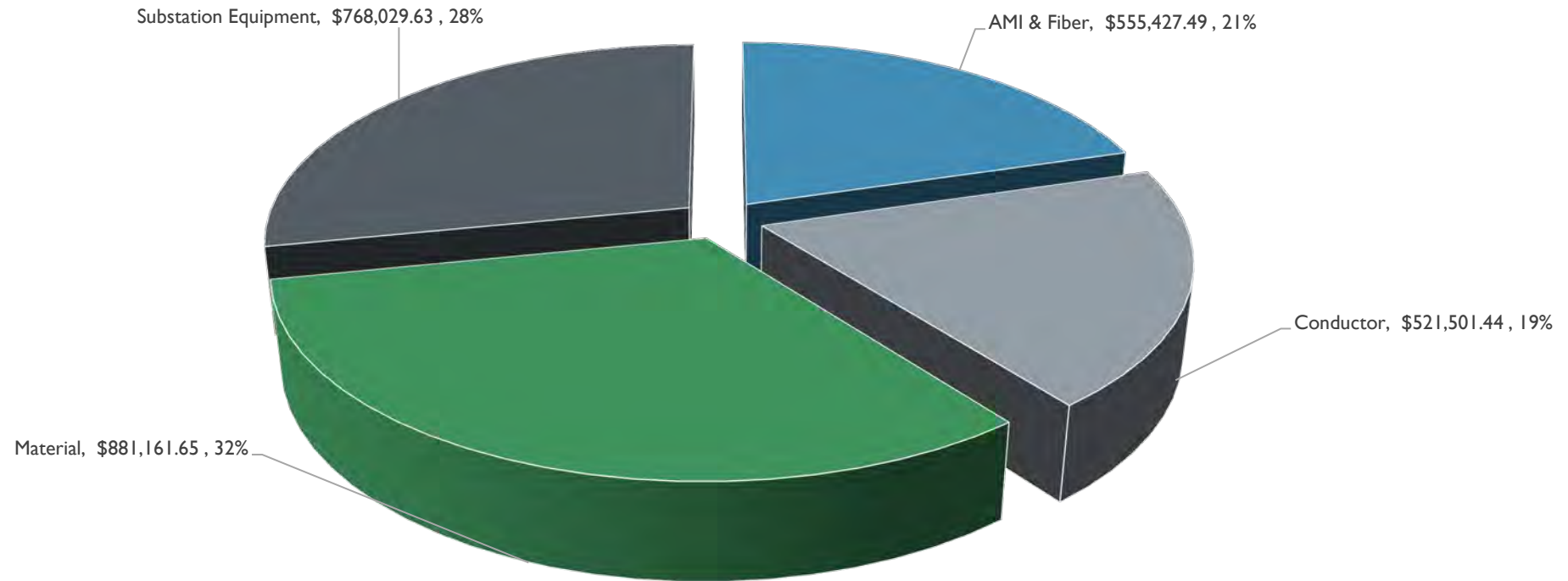


# WAREHOUSE/INVENTORY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

Inventory Percentages



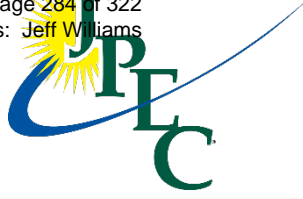
■ AMI & Fiber ■ Conductor ■ Material ■ Substation Equipment

# OPERATIONS & TECHNICAL SERVICES



# Questions?





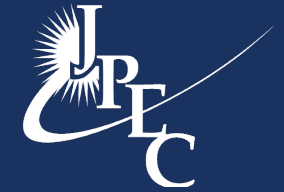
# Jackson Purchase Energy Cooperative

Engineering, Operations &  
Technical Services

October 2021



# JACKSON PURCHASE ENERGY

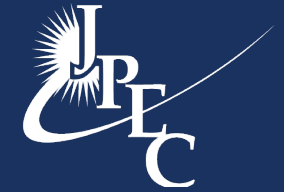


## Strategic Initiatives

1. **Safety** – instill a culture of safety throughout the entire organization as it applies to cooperatives
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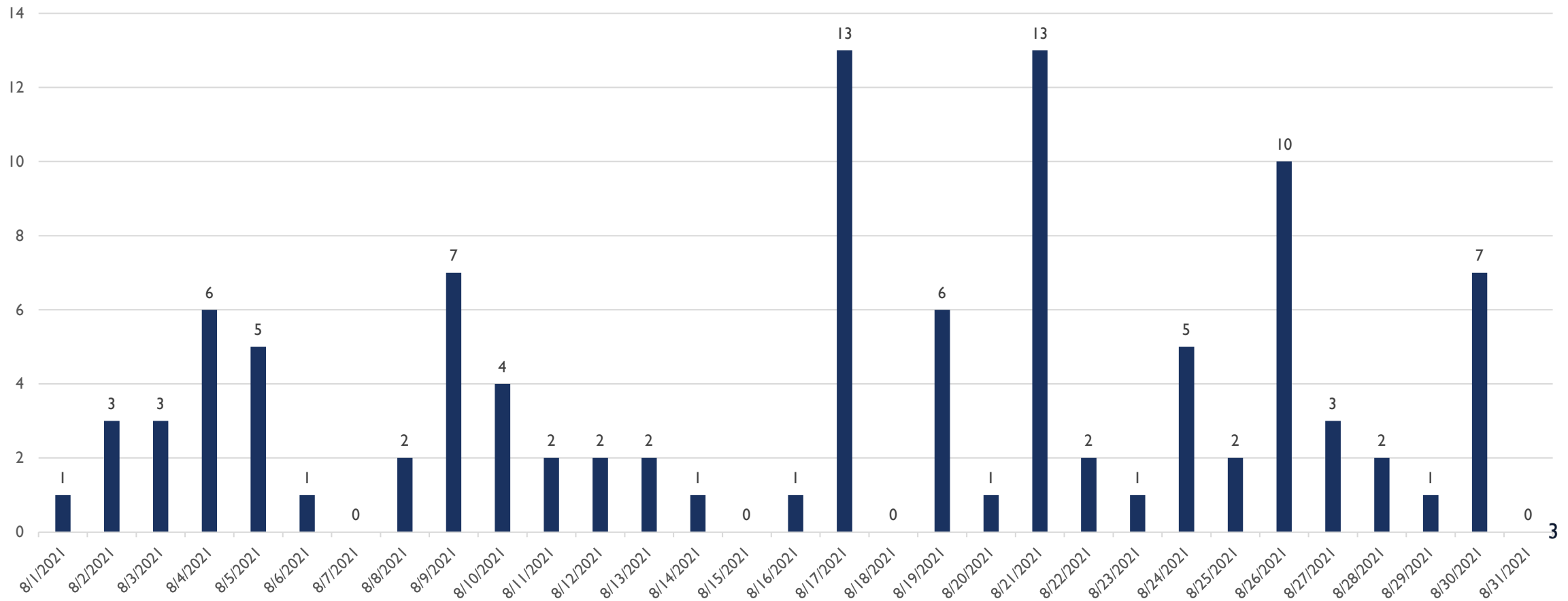
# OPERATIONS/RELIABILITY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



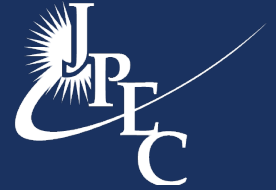
Strategic Initiative 4

August Daily Outages



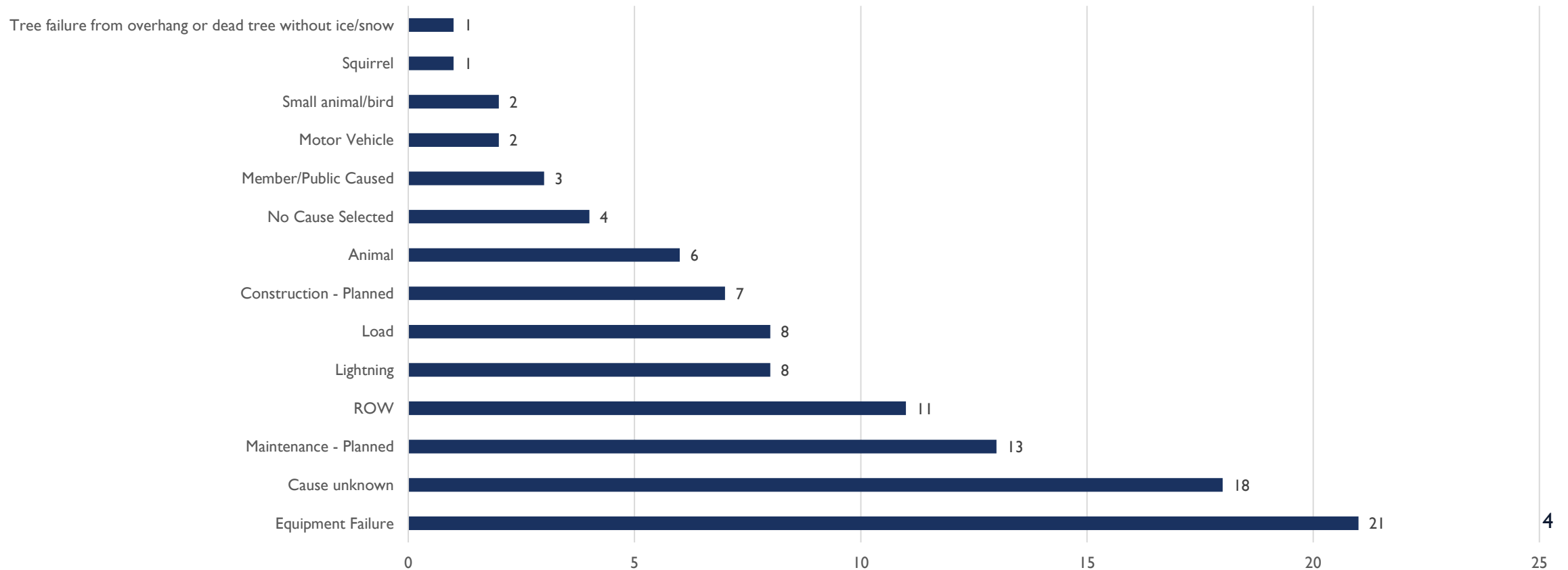
# OPERATIONS/RELIABILITY

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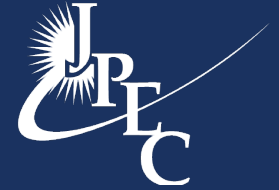
Strategic Initiative 4

August Outage Causes



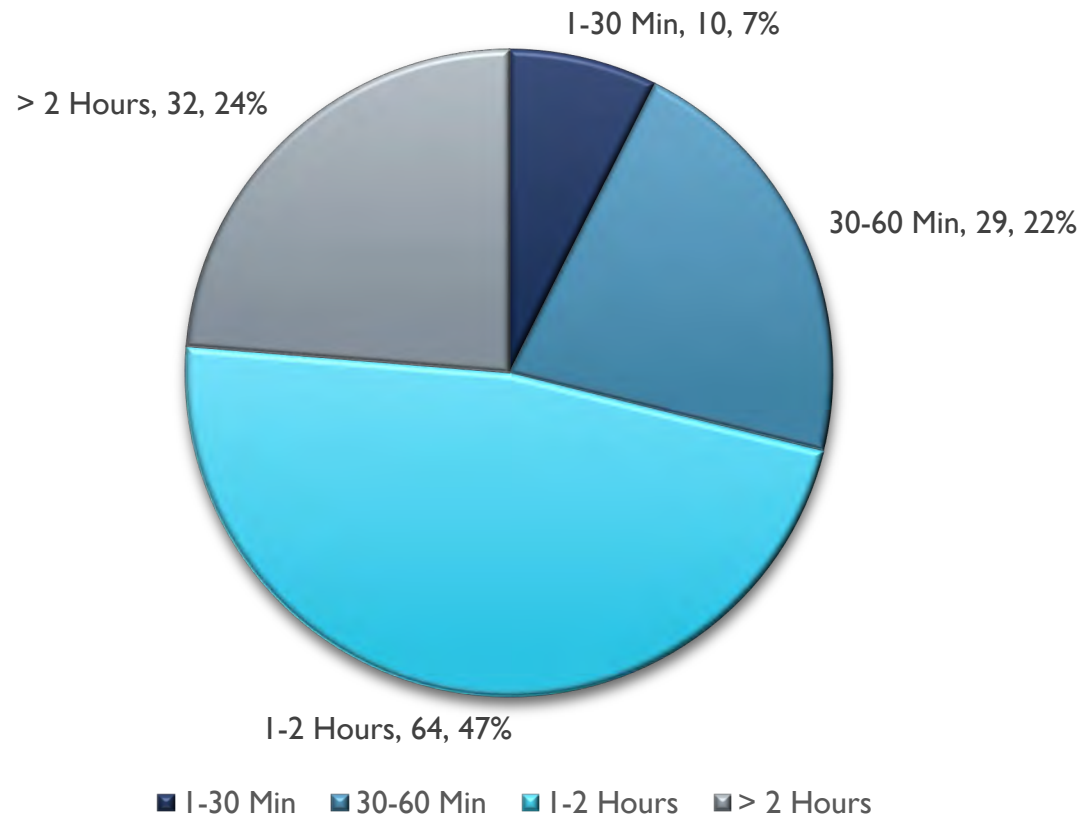
# OPERATIONS/RELIABILITY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



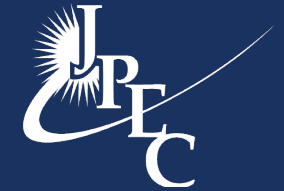
Strategic Initiative 4

### Outage Duration



# OPERATIONS

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



Strategic Initiative 4

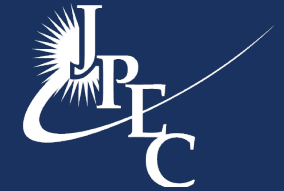
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- 2 Townsend hourly crews
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- Working with BREC on ROW plan

## OPERATIONS

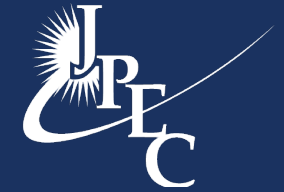
### STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



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# OPERATIONS

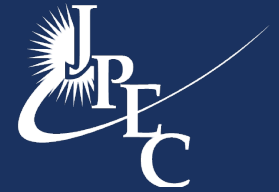
## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



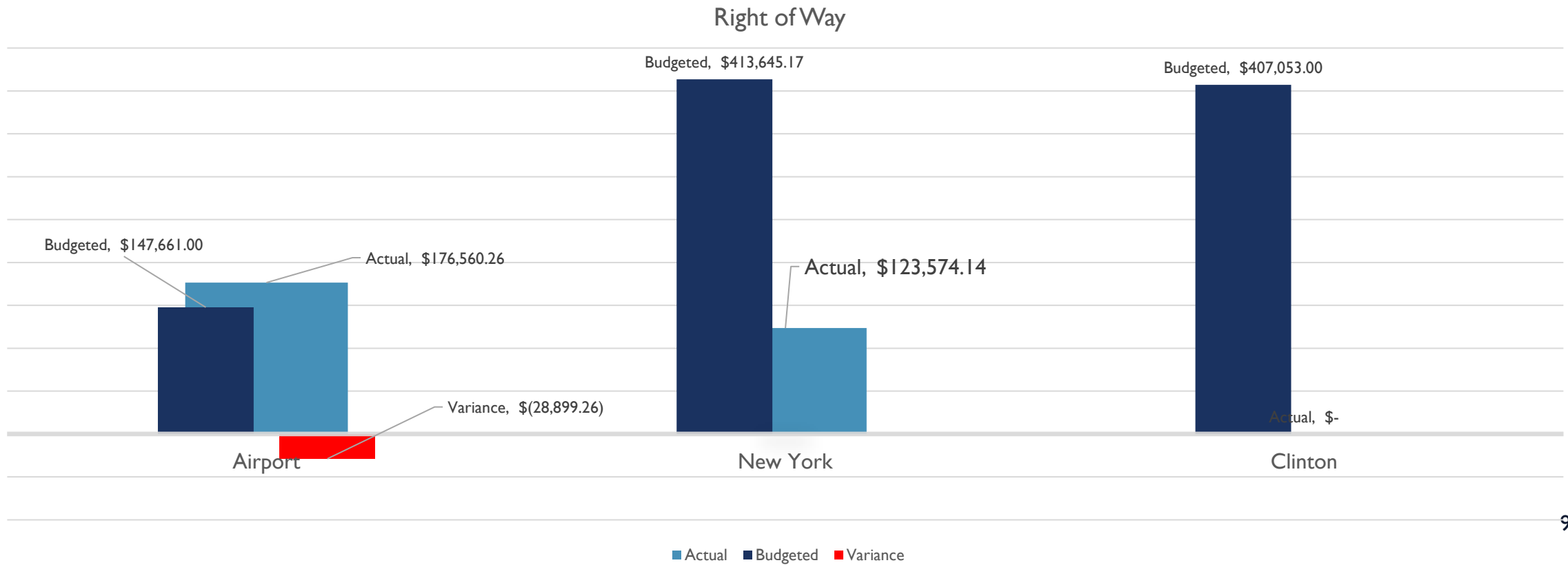


# OPERATIONS

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

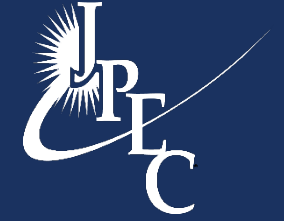


Strategic Initiative 4



# ENGINEERING

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



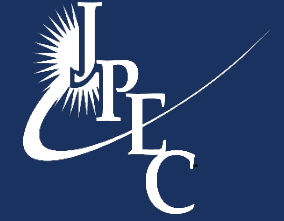
### *Strategic Initiative 4*

#### **Engineering**

- Assembly Unit CAD Drawings
- Windmil Model Correction
- Net Metering
  - 2 pending
- CWP Jobs
- Tap Protection
  - 9 of 91 circuits completed
- 2 Yr. Line Inspection
  - Completed
- Pole Attachments

# ENGINEERING

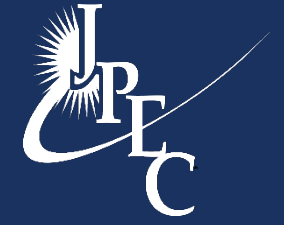
## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



### *Strategic Initiative 4*

## **Pole Attachments**

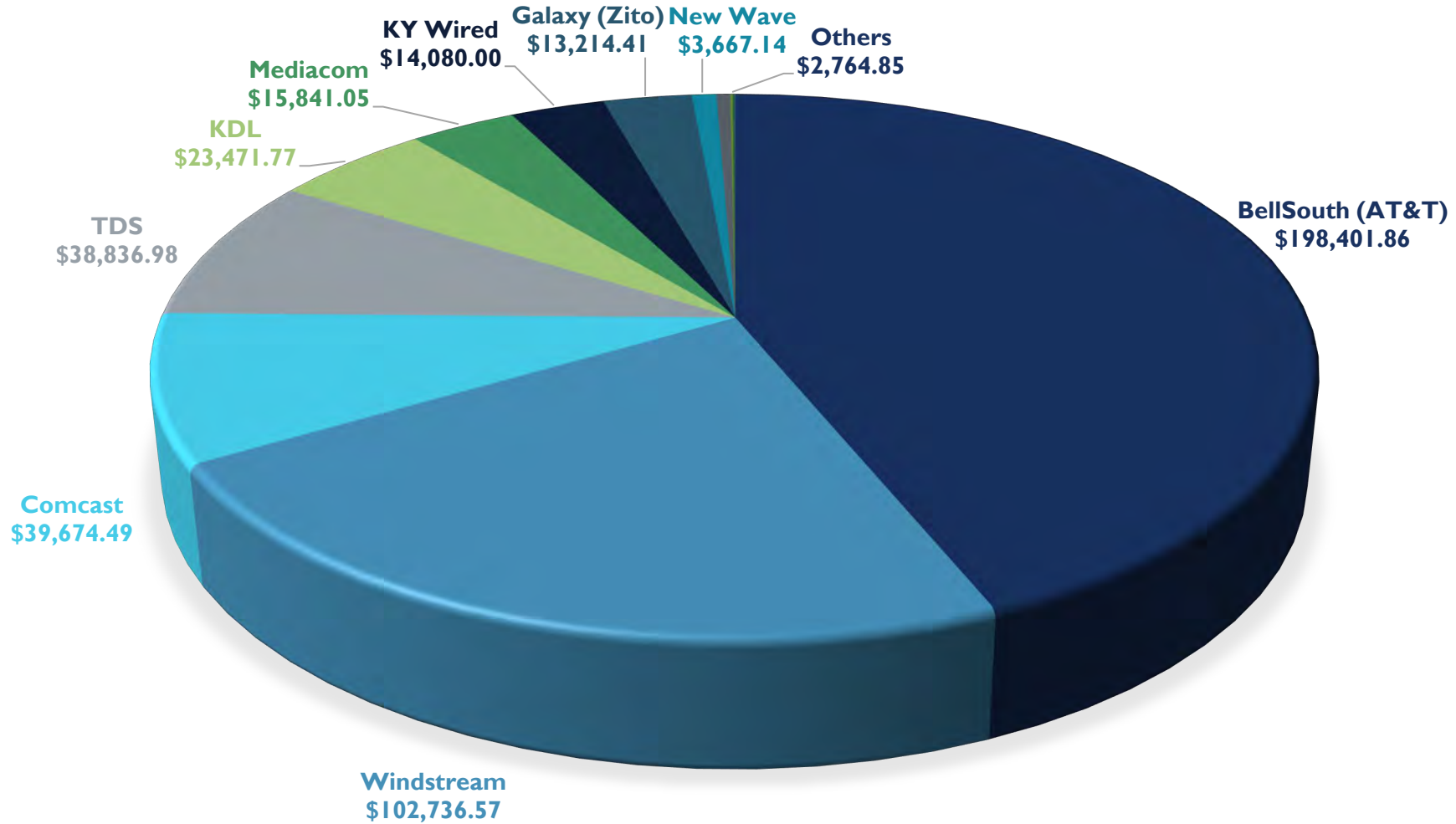
- Standardized attachment agreement
- Contracts on Engineering SharePoint
- Software selection (NJUNS or Alden One)
- Field inventory ongoing (3.5% Complete)
- Tariff Attachments – 16,605 (\$74K in revenue)
- Joint Use Attachments – 15314 (\$378K in revenue)

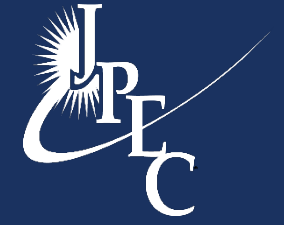


# ENGINEERING

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Revenue

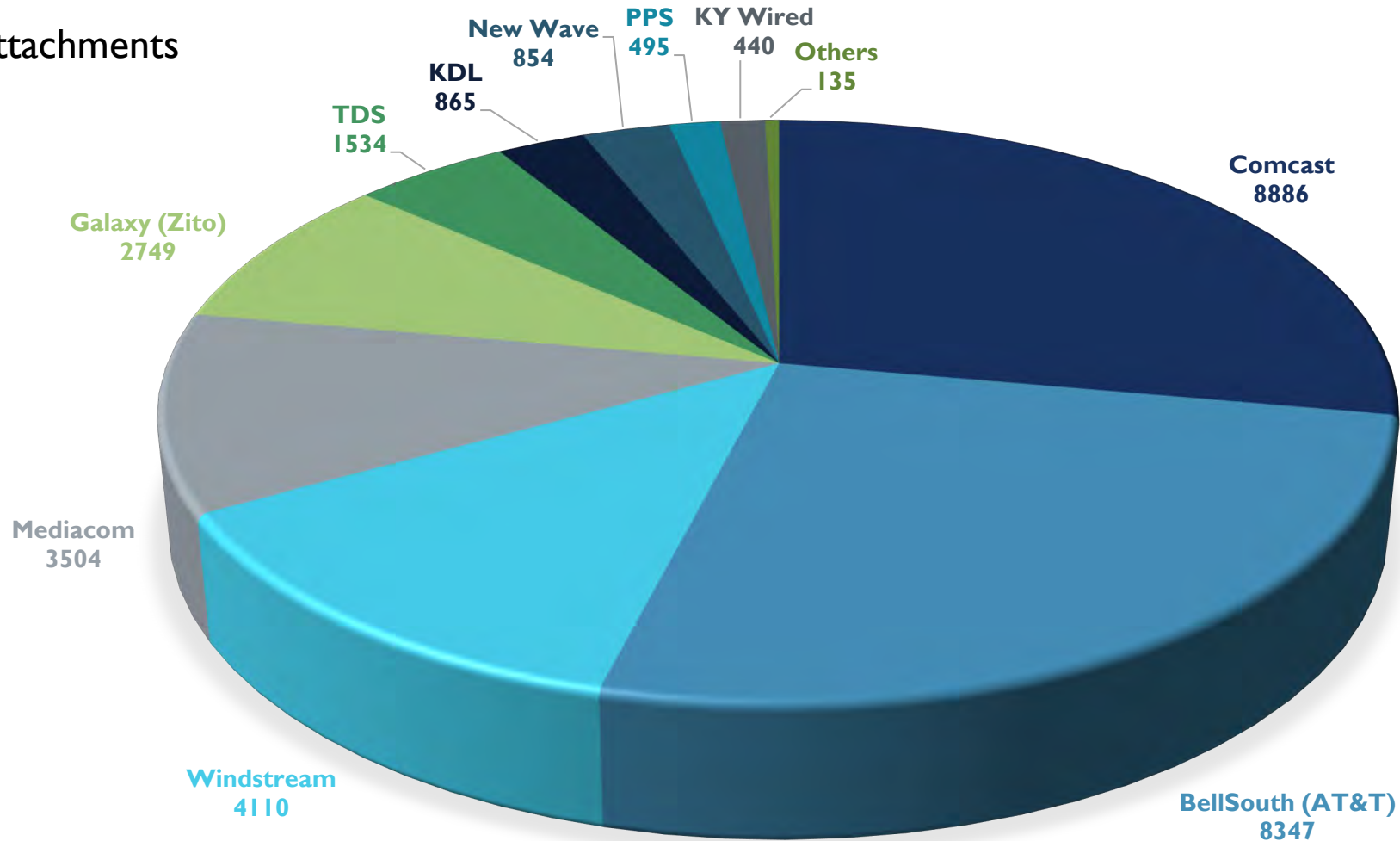




# ENGINEERING

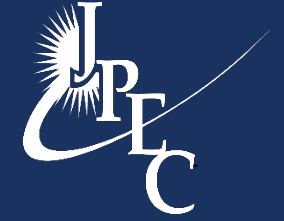
## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Number of Attachments



# ENGINEERING

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



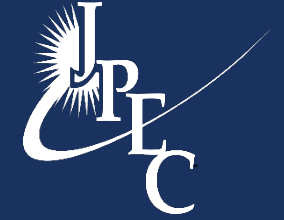
### *Strategic Initiative 4*

#### **Staking Projects**

- Inventory Prep
- Barkley Regional Airport – Construction in progress.
- Eagle Landing Subdivision – Three phase conduit installed. Wire has been installed to portions of development.
- KU Crossing – Construction agreement executed and materials ordered.
- Copperweld Reconductor
- Pole Replacements

## ENGINEERING

### STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



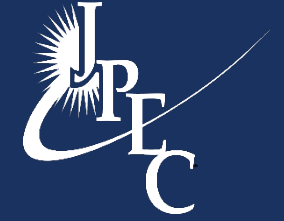
#### *Strategic Initiative 4*

### **2021 Construction Work Plan Projects**

- **Calvert City Substation, Gilbertsville 43234**
  - Status: Completed
- **Krebs Road Substation, Clinton Rd 50234**
  - Status: Phase I Completed
  - Notes: Phase 2 and 3 need ROW
- **Culp Substation, Possum Trot 42234**
  - Status: Construction in progress
- **New York Substation, Slater 47254**
  - Status: Staking in progress
- **New York Substation, Wickliffe 47244**
  - Status: Staking in progress

# ENGINEERING

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



### *Strategic Initiative 4*

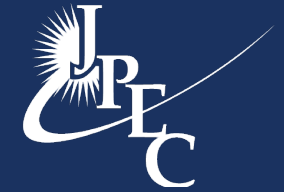
## **BlockWare**

- Trenching and conduit installation complete for initial 2 circuits
- Manhole lids are finished and ready for delivery
- 2 of 6 runs are pulled
- Waiting on BlockWare's switchgear to arrive
- Building completion behind schedule
- Exploring short-term options for mining (i.e. cargo containers)



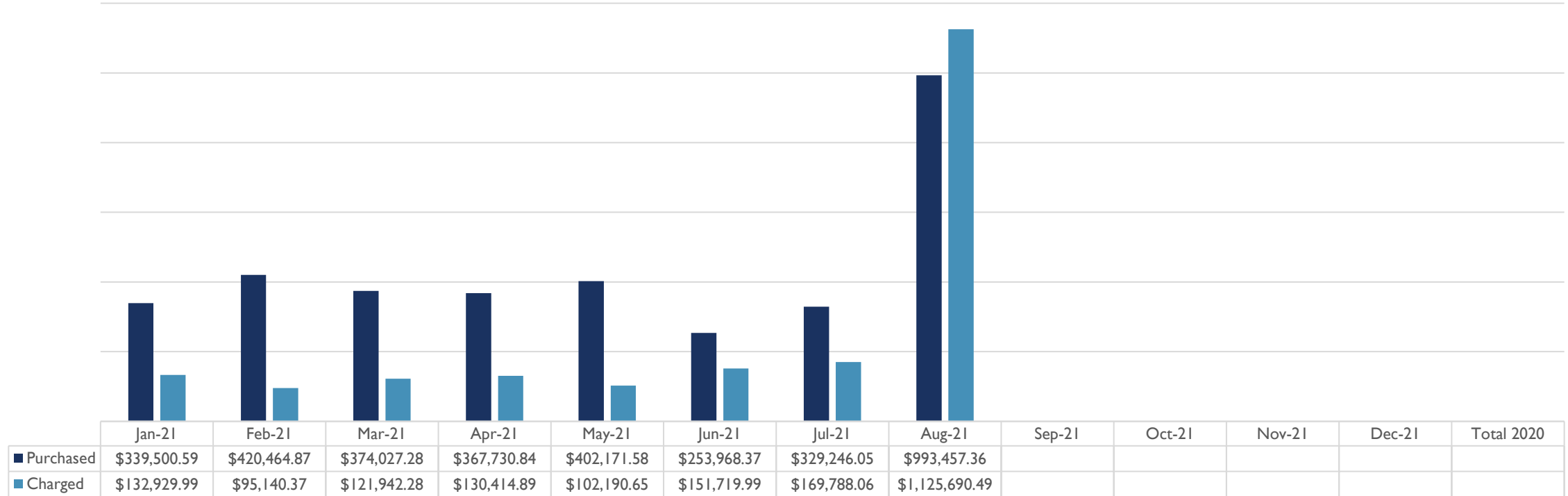
# WAREHOUSE / INVENTORY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



Strategic Initiative 4

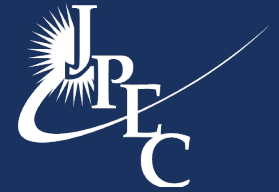
Materials Purchased



■ Purchased ■ Charged

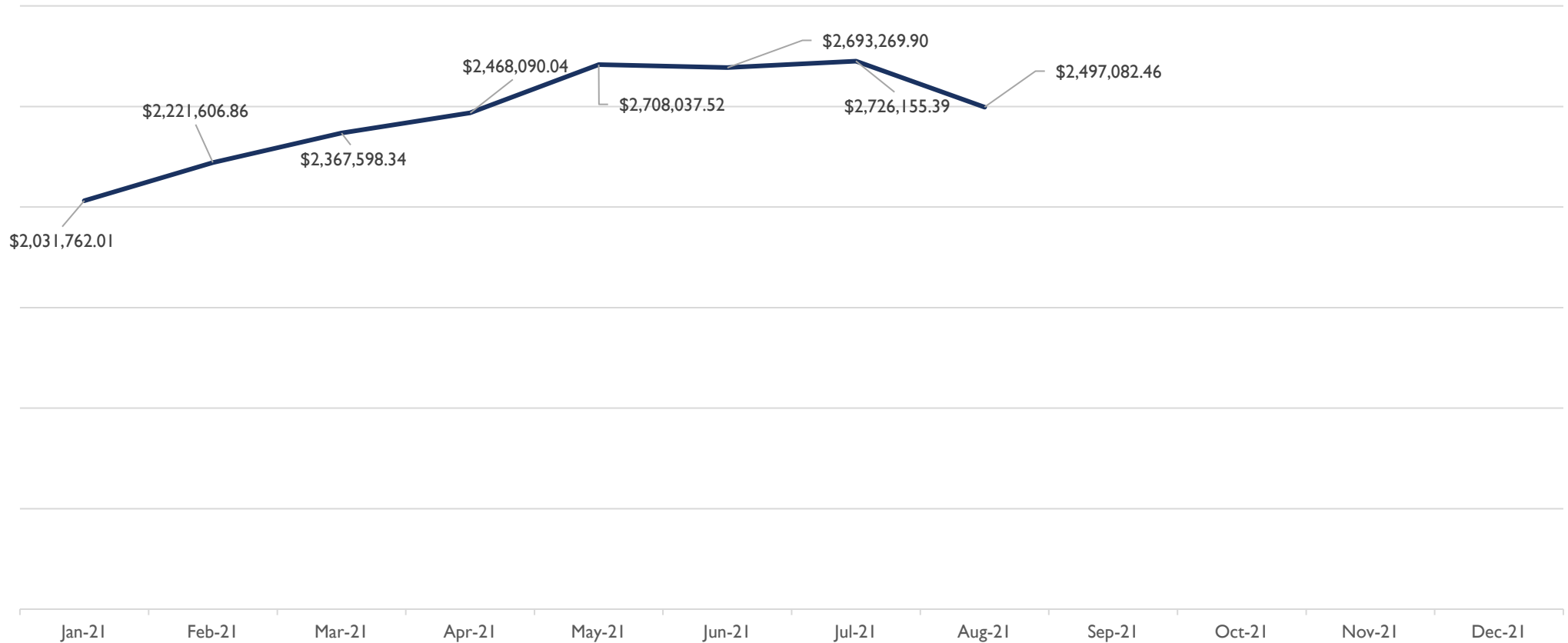
# WAREHOUSE / INVENTORY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



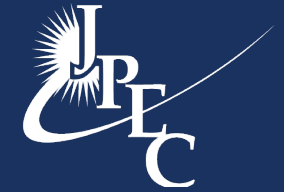
Strategic Initiative 4

Inventory Dollar Amount



# TECHNICAL SERVICES

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



### Strategic Initiative 4

### Substations

- Krebs
- Culp Outage
- Mobile
- Doble Testing (Transformer)
  - Reidland
  - Freemont
  - Maxon
  - High Point
  - Joy
  - Burna
  - Lovelaceville
  - Shell-Ragland

### Upcoming Upgrades:

- 69 Relay/Breaker Replacement
  - Little Union
  - Husband Rd
  - Coleman Rd
  - Olivet Church
  - Culp



## OPERATIONS & TECHNICAL SERVICES



# Questions?



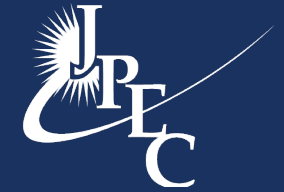
# Jackson Purchase Energy Cooperative

**Engineering, Operations &  
Technical Services**

November 2021

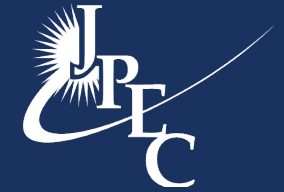


# JACKSON PURCHASE ENERGY



## Strategic Initiatives

1. **Safety** – instill a culture of safety throughout the entire organization as it applies to cooperatives
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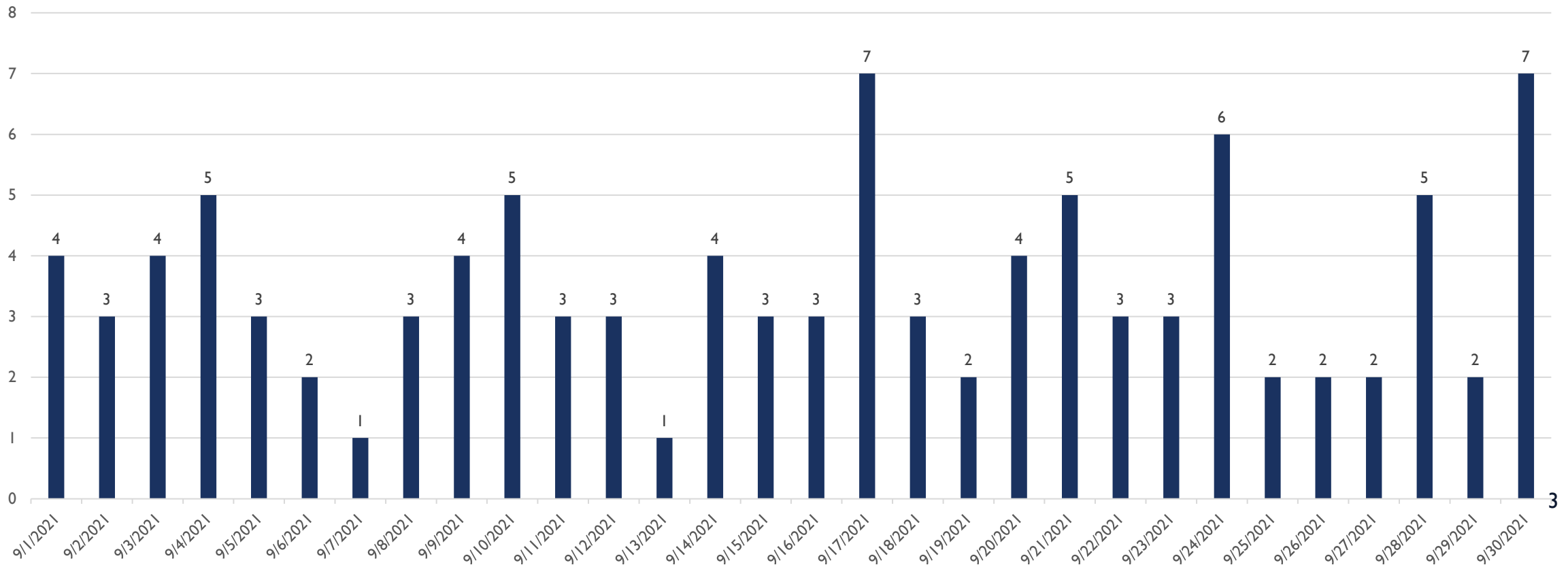


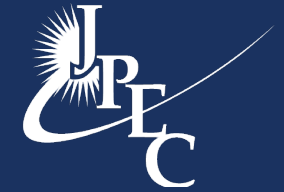
# OPERATIONS/RELIABILITY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

September Daily Outages



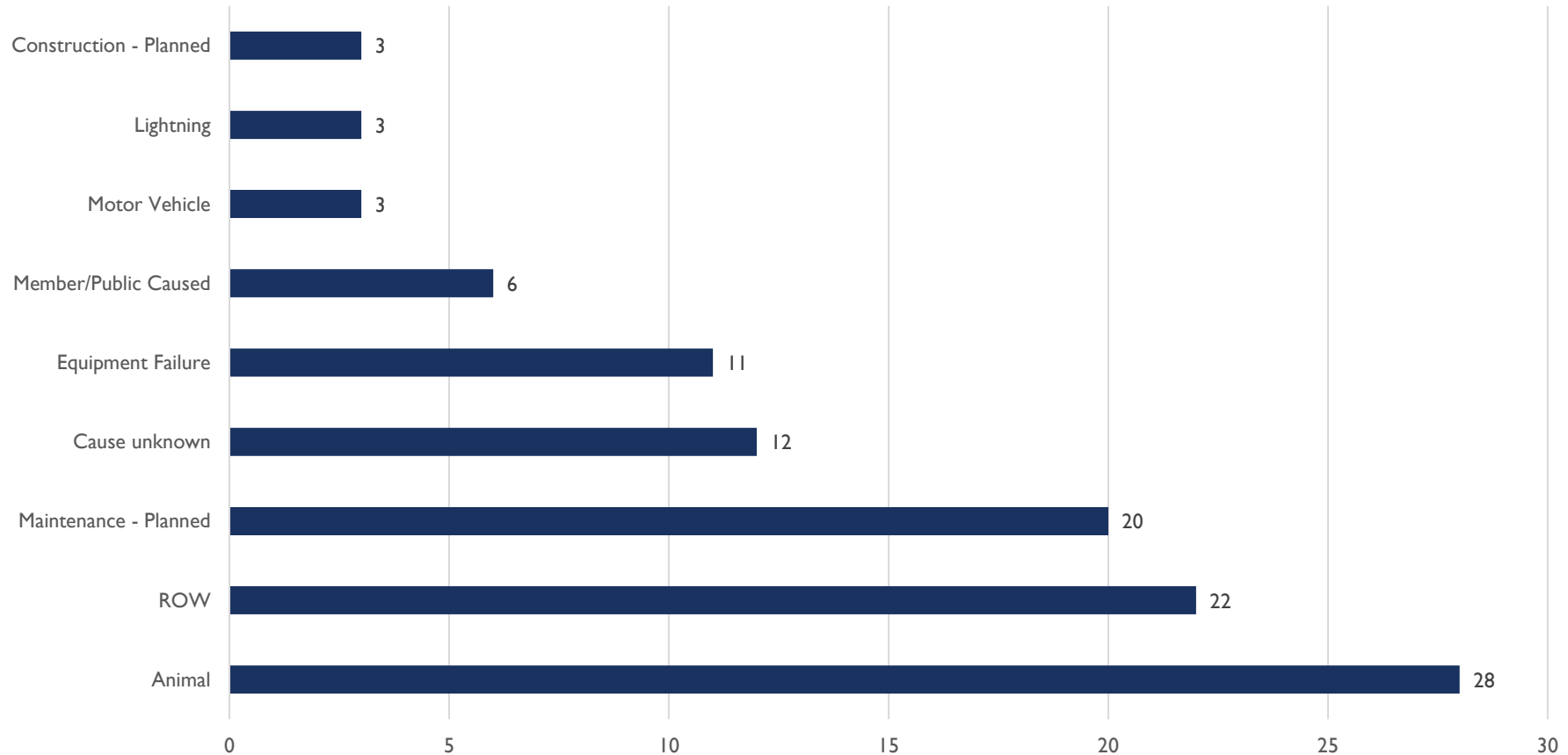


# OPERATIONS/RELIABILITY

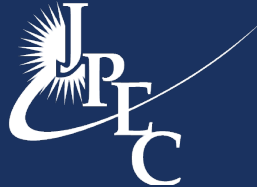
## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

### September Outage Causes



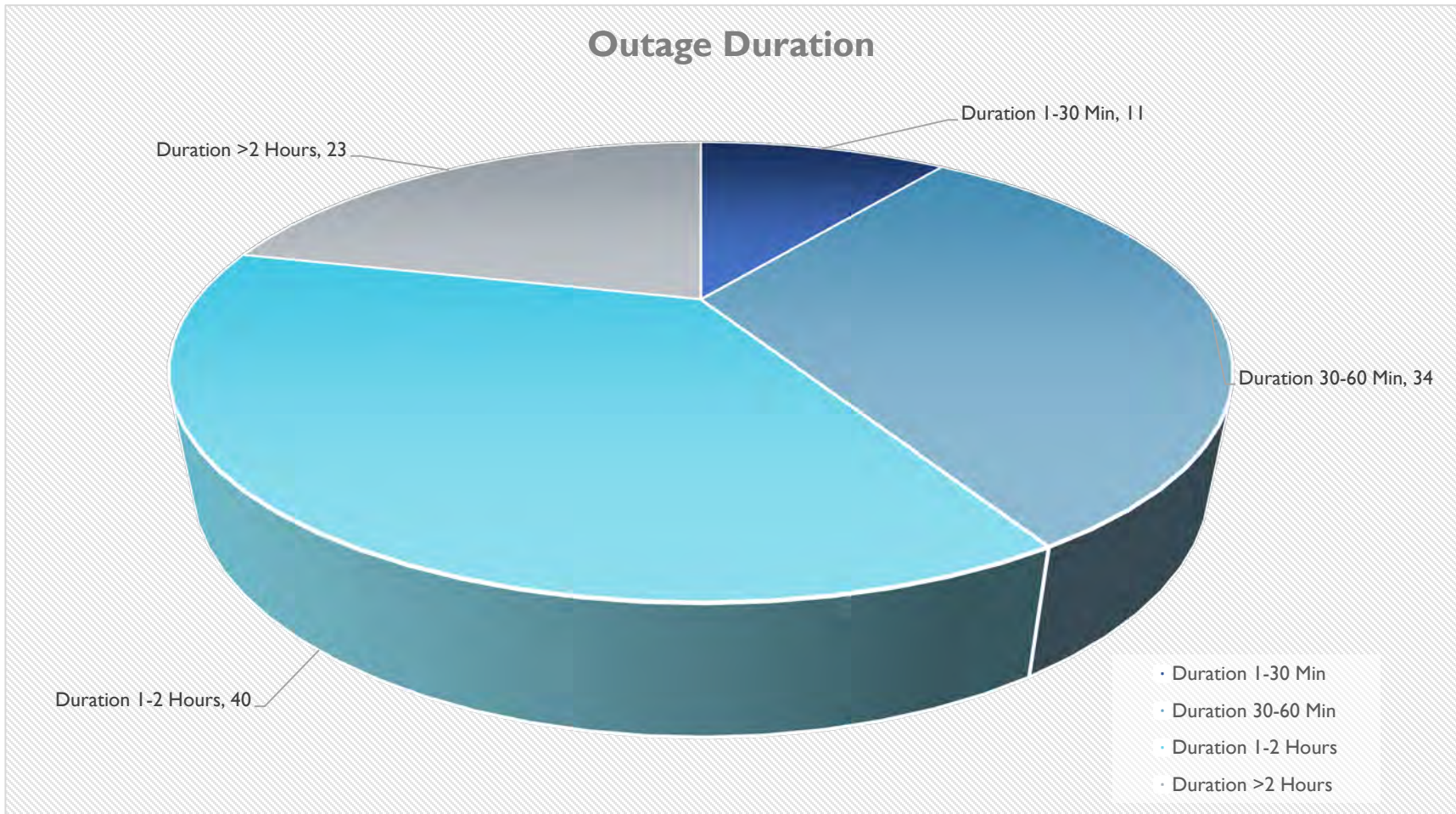


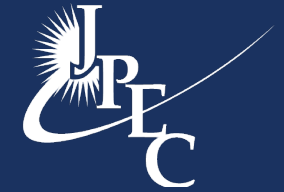


# OPERATIONS/RELIABILITY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4





# RIGHT OF WAY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

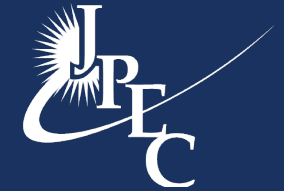
### 2021 ROW PLAN

		Circuit	Take Downs	Total
Little Union	Airport	\$129,791.00	\$21,677.75	\$151,468.75
Krebs	Clinton Rd	\$337,364.00	\$79,766.75	\$417,130.75
New York	Wickliffe	\$400,124.00	\$52,587.00	\$452,711.00
			Total	\$1,021,310.50
			Budget	\$1,490,840.00
Cost Per Mile	\$12,766.38		Difference	469,529.50

- Approximately 80 Circuit Miles
- As the budget allows, we will increase circuit cutting
- Short term contract with Townsend
  
- 2 Townsend hourly crews
- Spray all substations
  
- We will begin scouting for 2022 circuits
- Working with BREC on ROW plan

## RIGHT OF WAY

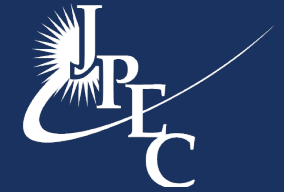
STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



Strategic Initiative 4

### Summary

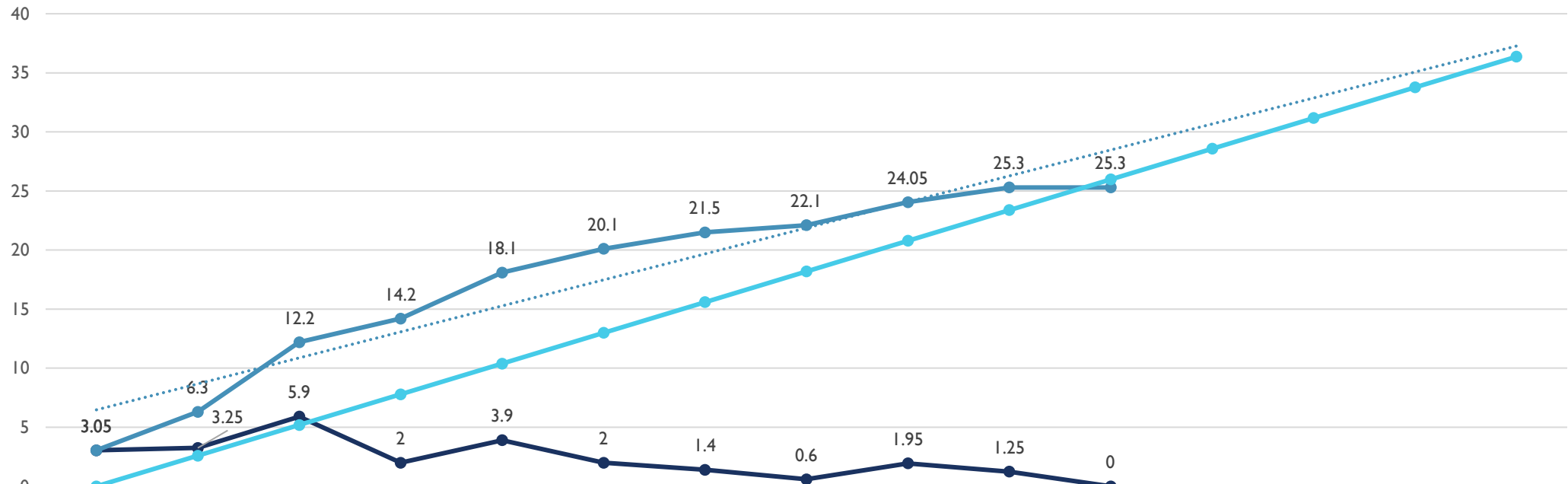
- Prior to 2020 JPEC was only trimming ROW and cutting “hot spots”
- 30,944 meters have experienced a ROW outage in the last 4 years
- Total duration of these outages 4,826,791 minutes (80,446 Hours)
- Average duration of outage 1 hour 50 minutes
- Approximately 1800 miles of overhead primary conductor
- In order to maintain a 5-year cycle we need to cut 350 – 400 miles annually
- Based on 2020 and 2021 actual ROW bids the average cost per mile is \$12,033
- In order to cut on a 5-year rotation we need to budget \$4.4 million per year
- That’s an increase of \$3 million from 2021 budget



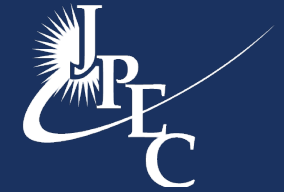
# RIGHT OF WAY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

### New York--244-Wickliffe



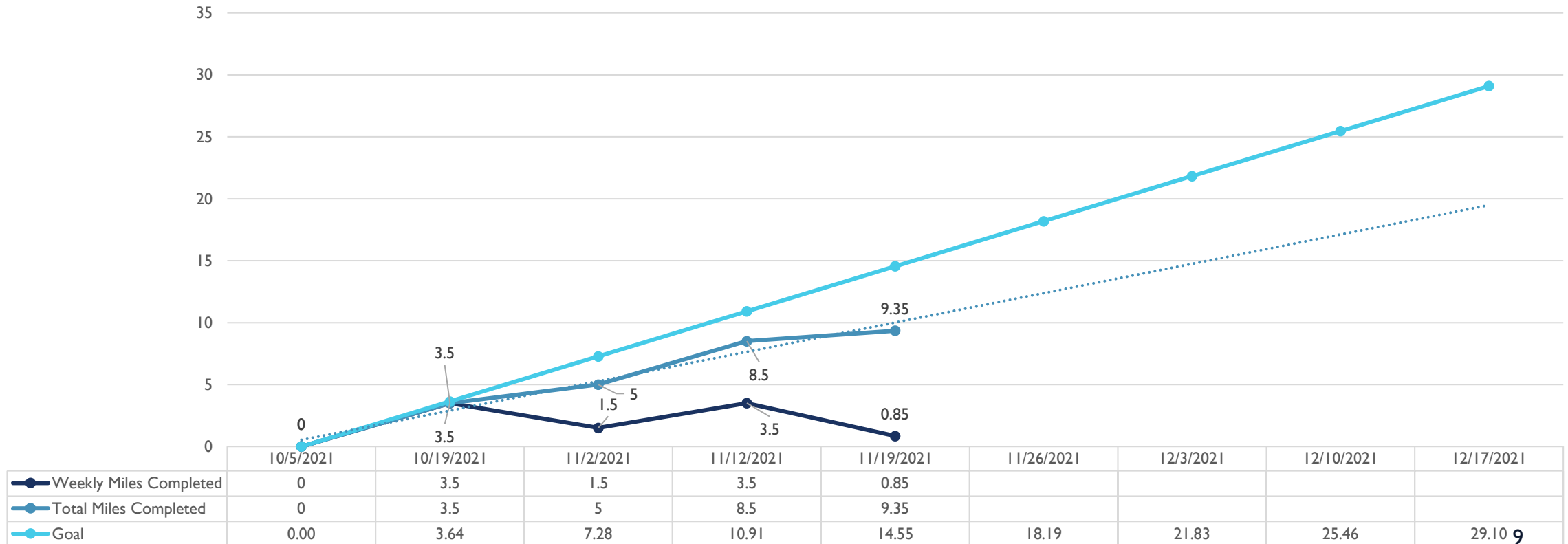
	8/9/2021	8/23/2021	9/7/2021	9/22/2021	10/8/2021	10/15/2021	10/22/2021	10/29/2021	11/5/2021	11/12/2021	11/19/2021	11/26/2021	12/3/2021	12/10/2021	12/17/2021
Weekly Miles Completed	3.05	3.25	5.9	2	3.9	2	1.4	0.6	1.95	1.25	0				
Total Miles Completed	3.05	6.3	12.2	14.2	18.1	20.1	21.5	22.1	24.05	25.3	25.3				
Goal	0.00	2.60	5.20	7.79	10.39	12.99	15.59	18.19	20.78	23.38	25.98	28.58	31.17	33.77	36.37



# RIGHT OF WAY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

### Krebs Station Road--234-Clinton Rd

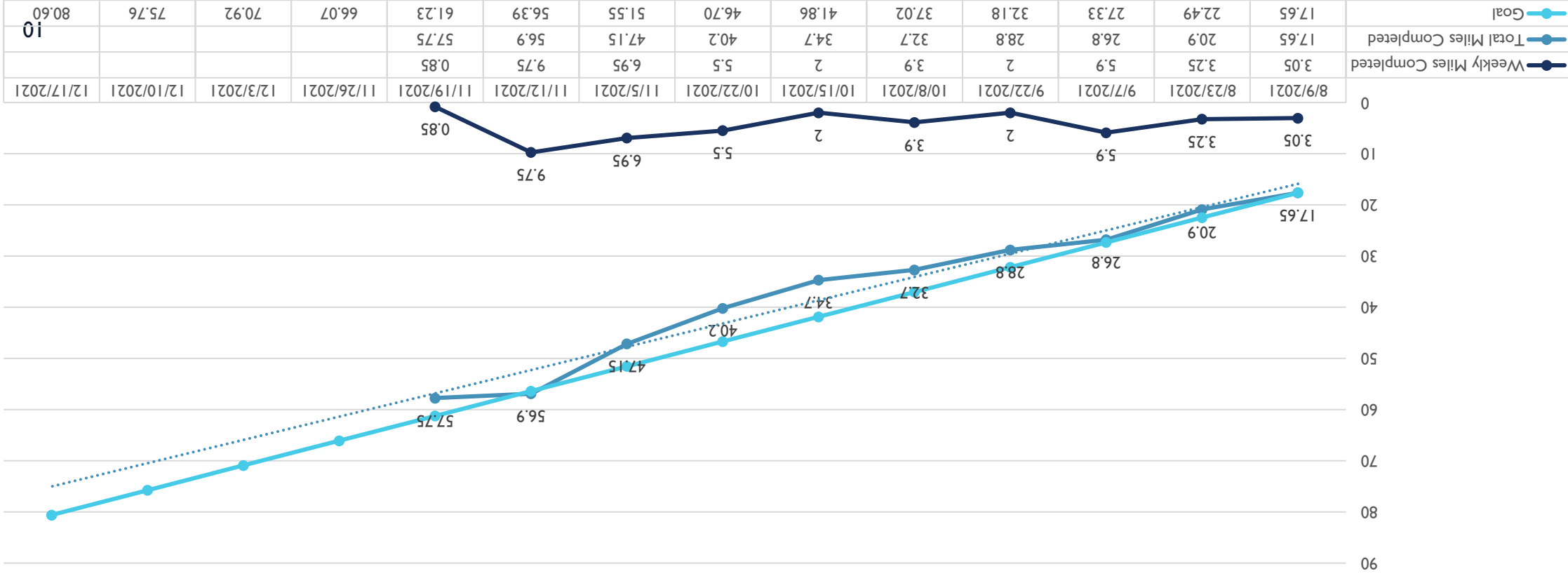


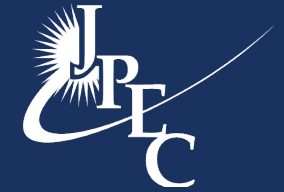


# RIGHT OF WAY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Total 2021 Circuit Cutting

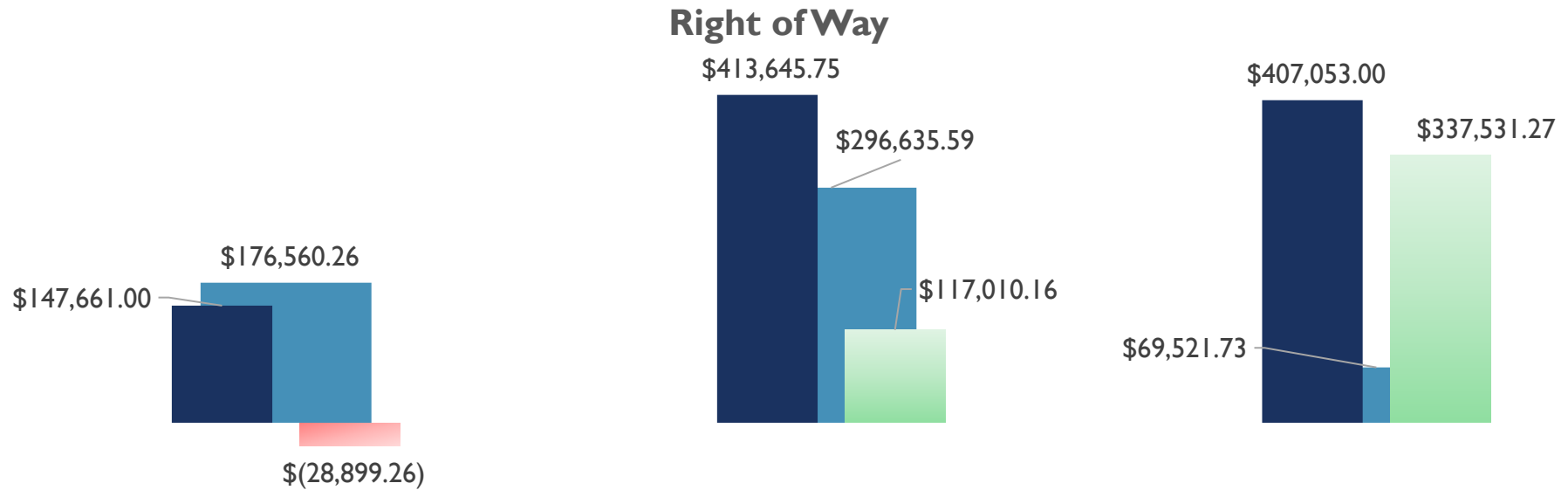




# RIGHT OF WAY

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

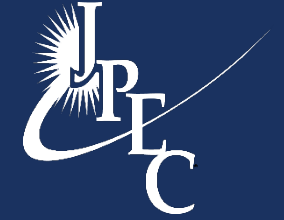
Strategic Initiative 4



	Little Union--214-Airport	New York--244-Wickliffe	Krebs Station Road--234-Clinton Rd
Actual	\$176,560.26	\$296,635.59	\$69,521.73
Budgeted	\$147,661.00	\$413,645.75	\$407,053.00
Variance	\$(28,899.26)	\$117,010.16	\$337,531.27

# ENGINEERING

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



### *Strategic Initiative 4*

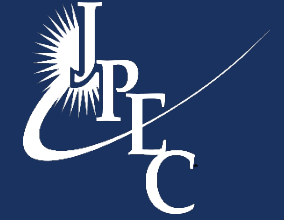
#### **Pole Attachments**

- Standardized attachment agreement
- Software selection (NJUNS or Alden One)
  - Alden One demo on Wednesday
- Field inventory ongoing (13% Complete)
  - Hunter starting 11/9



# ENGINEERING

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



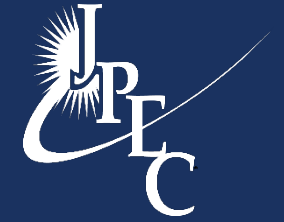
### *Strategic Initiative 4*

#### **Staking Projects**

- Logan Davis Bitcoin Project
- Barkley Regional Airport – Complete for now. Padmount will be set at later date.
- Eagle Landing Subdivision – Three phase conduit installed. Portion of single phase installed throughout development.
- KU Crossing – Materials ordered.
- Copperweld Reconductor
- Pole Replacements

# ENGINEERING

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



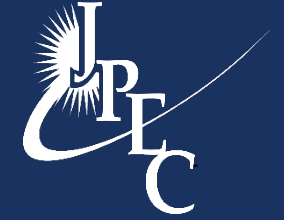
### *Strategic Initiative 4*

## **2021 Construction Work Plan Projects**

- **Calvert City Substation, Gilbertsville 43234**
  - Status: Completed
- **Krebs Road Substation, Clinton Rd 50234**
  - Status: Phase I Completed
  - Notes: Phase 2 and 3 need ROW
- **Culp Substation, Possum Trot 42234**
  - Status: Construction in progress (Should be completed next week)
- **New York Substation, Slater 47254**
  - Status: Finalizing WO
- **New York Substation, Wickliffe 47244**
  - Status: Staking and ROW clearing in progress

# ENGINEERING

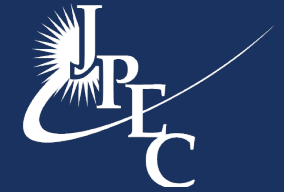
## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES



### *Strategic Initiative 4*

#### **BlockWare**

- Phase 1 is complete
- Preparing phase 1 invoice to BREC
- Still waiting on BlockWare's switchgear to arrive
- Phase 2 is underway
- Floors of remaining (3) manholes are poured
- Majority of three phase conduit installed

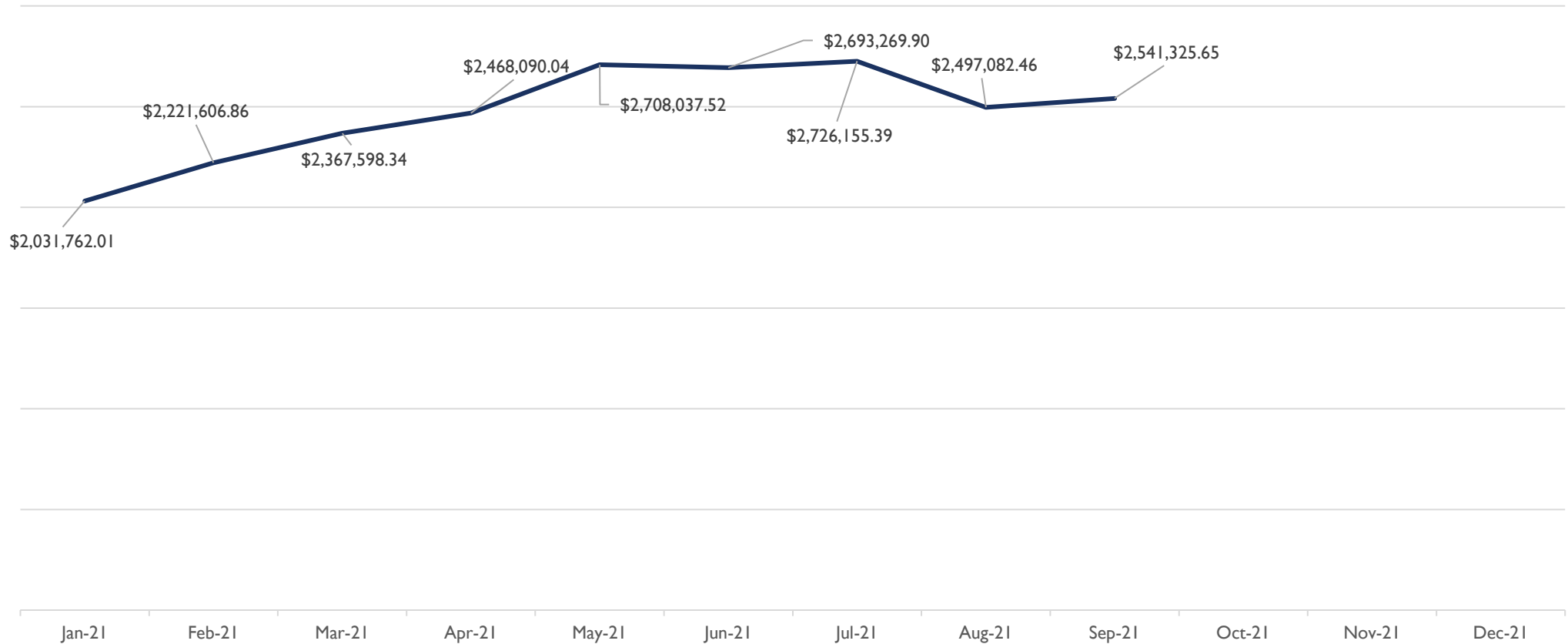


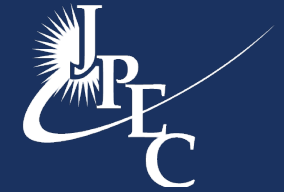
# WAREHOUSE / INVENTORY

STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4

Inventory Dollar Amount

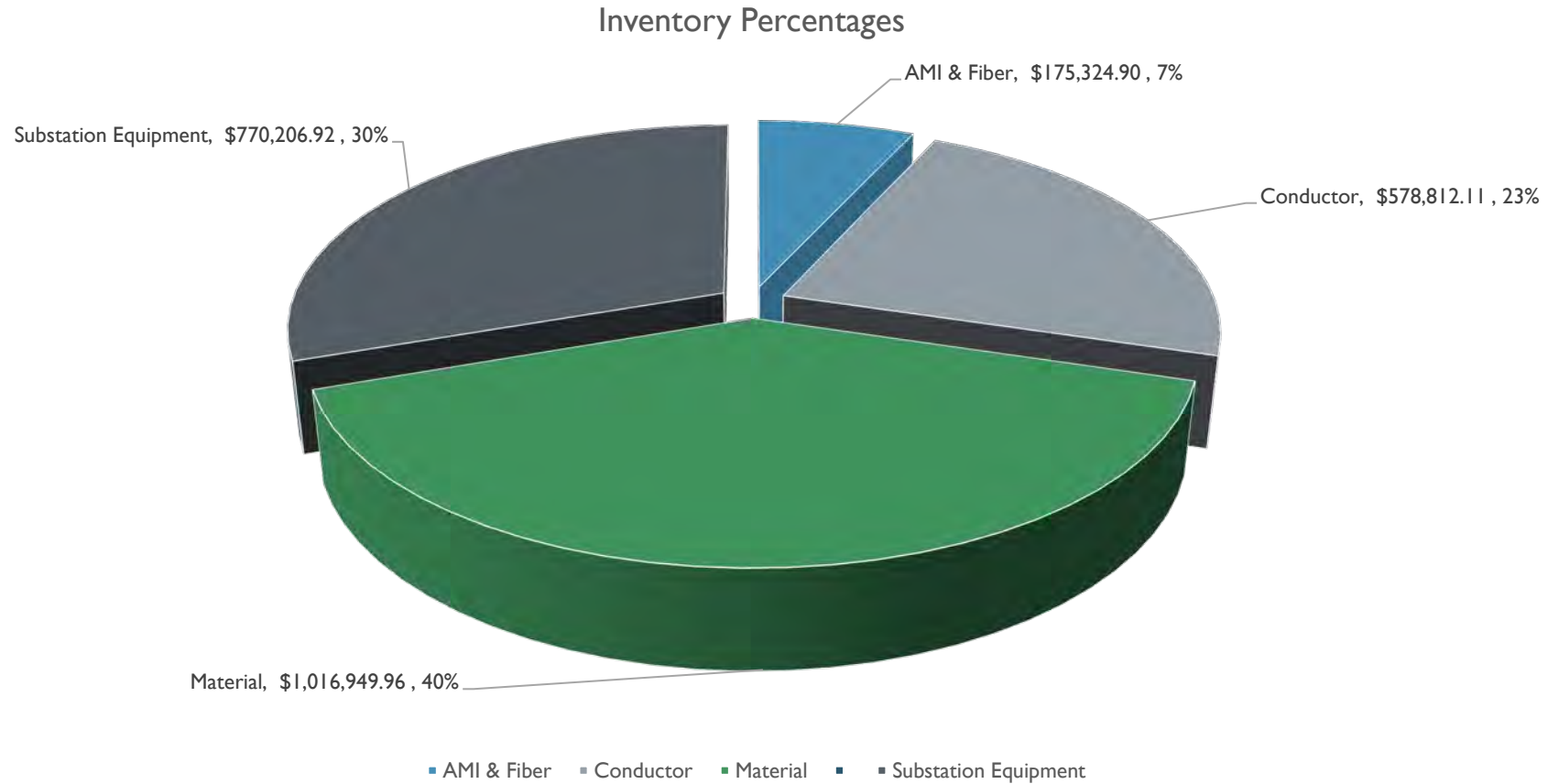


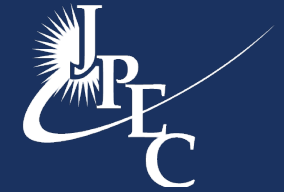


# WAREHOUSE / INVENTORY

STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

Strategic Initiative 4





# TECHNICAL SERVICES

## STRATEGIC INITIATIVE 4 – SYSTEM OPERATIONS & MEMBER SUPPORT EFFICIENCIES

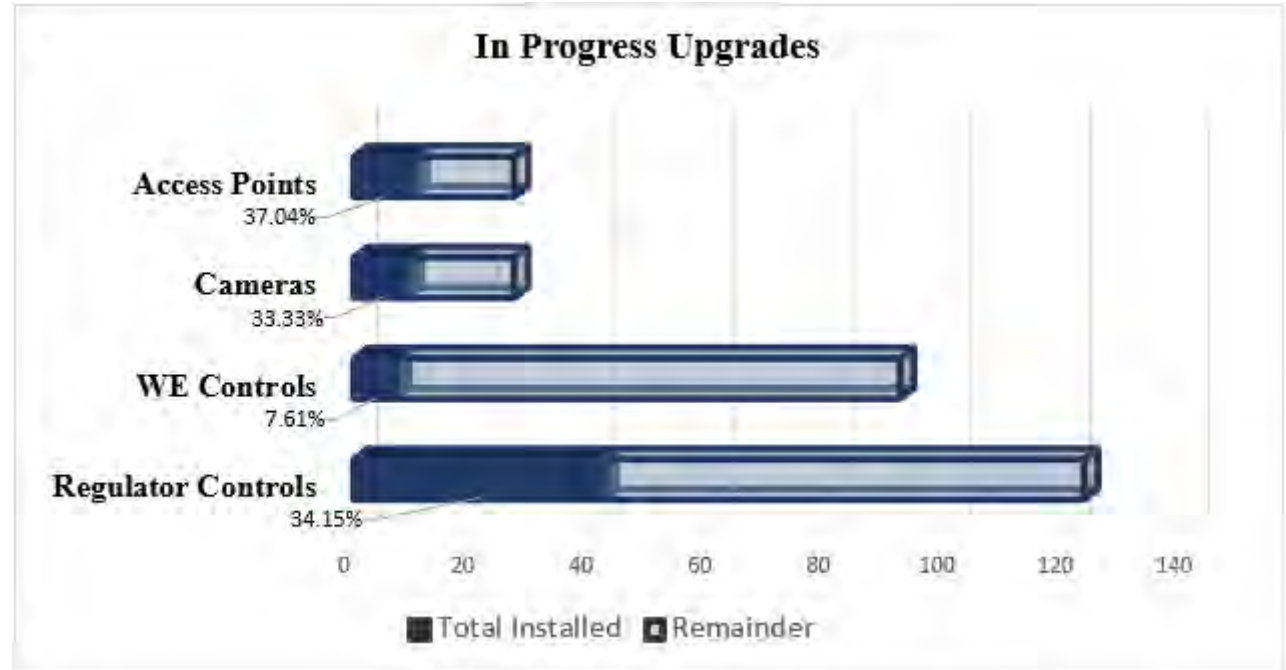
### Strategic Initiative 4

### Substations

- Krebs
- Mobile
- Doble Testing (Transformer)
  - Reidland
  - Freemont
  - Maxon
  - High Point
  - Joy
  - Burna
  - Lovelaceville
  - Shell-Ragland

### Upcoming Upgrades:

- 69 Relay/Breaker Replacement
  - Little Union
  - Husband Rd
  - Coleman Rd
  - Olivet Church
  - Culp



# OPERATIONS & TECHNICAL SERVICES



# Questions?

**JACKSON PURCHASE ENERGY CORPORATION  
PSC CASE NO. 2021-00358  
SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG’S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21  
REQUEST 25**

**RESPONSIBLE PERSON:** Jeff Williams

**COMPANY:** Jackson Purchase Energy Corporation.

**Request 25.** Regarding response to Staff Data Request 2-21 (d) please explain the bid responses provided, for example, under the Townsend Tree Service bid, for the hourly crews:

a. For the numbers \$2.70 and \$11,232 under “chain saw”, please provide headers and explanations for the column that lists “\$2.70” and headers and explanations for the column that lists “\$11,232”.

b. Similar explanation for derivation and meaning of both columns of numbers for each of the other rows.

c. Explain what the total number \$214,635 represents.

**Response 25.**

(a) \$2.70 is the cost per chainsaw per hour. The \$11,332 is explained by the formula, which is the cost of 2 chainsaws for a full year, or 2080 hours. The heading for



the column that contains \$11,232 (Column C) is the yearly cost for 1 crew working 2080 hours. The heading for the cost that lists \$2.70 is the cost per hour (Column B)

(b) Column A is the position or piece of equipment. All other columns are explained in part (a) of this response.

(c) This is the costs for an entire crew annually (2,080 hours)

**JACKSON PURCHASE ENERGY CORPORATION  
PSC CASE NO. 2021-00358  
SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG'S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21  
REQUEST 26**

**RESPONSIBLE PERSON: Jeff Williams**

**COMPANY: Jackson Purchase Energy Corporation**

**Request 26.** Regarding response to Staff Data Request 2-21 (d) please verify that all of the bids are tabulated in a similar fashion and describe the numbers in each column, and what the column 2 total represents in terms of the crew costs.

**Response 26.** All bids are shown and calculated similarly. The columns are explained in AG 2-25 (a) and (b).

**JACKSON PURCHASE ENERGY CORPORATION  
PSC CASE NO. 2021-00358  
SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG’S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21  
REQUEST 27**

**RESPONSIBLE PERSON: Jeff Williams**

**COMPANY: Jackson Purchase Energy Corporation**

**Request 27.** Regarding response to Staff Data Request 2-21 (d) please explain why only Townsend Tree Service provided a row for “chain saw” and the other bidders did not.

**Response 27.** The answer to that question would require the testimony of the other companies. Townsend chose to submit their bid recovering a cost for chainsaws, while the others did not.

**JACKSON PURCHASE ENERGY CORPORATION  
PSC CASE NO. 2021-00358  
SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG’S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21  
REQUEST 28**

**RESPONSIBLE PERSON: Jeff Williams**

**COMPANY: Jackson Purchase Energy Corporation**

**Request 28.** Regarding response to Staff Data Request 2-21 (d) please explain why Townsend Tree Service did not provide a row for “pickup” and the other bidders did.

**Response 28.** The answer to that question would require the testimony of the bidders.

**JACKSON PURCHASE ENERGY CORPORATION  
PSC CASE NO. 2021-00358  
SUPPLEMENTAL REQUEST FOR INFORMATION RESPONSE**

**AG'S SUPPLEMENTAL REQUEST FOR INFORMATION—12/14/21  
REQUEST 29**

**RESPONSIBLE PERSON: Jeff Williams**

**COMPANY: Jackson Purchase Energy Corporation**

**Request 29.** Regarding response to Staff Data Request 2-21 (d) please explain how the circuit bids were tabulated.

**Response 29.** There was no tabulation on Jackson Purchase's parts, these are the bids received.