

KAYSVILLE CITY POWER AND LIGHT

**ANNUAL REPORT
2024**

**116 YEARS
OF SERVICE**

KAYSVILLE CITY POWER DEPARTMENT

ANNUAL REPORT 2024

BRIAN JOHNSON	POWER SUPERINTENDENT	FULL-TIME
BRUCE RIGBY	RESOURCE AND SERVICE MANAGER	FULL-TIME
BRETT THOMAS	OPERATIONS SUPERVISOR	FULL-TIME
BRANDON CHILD	LEAD LINEMAN	FULL-TIME
DANNY BLACK	LEAD LINEMAN	FULL-TIME
STEVE RICE	LEAD LINEMAN	FULL-TIME
WESLEY JONES	JOURNEYMAN	FULL-TIME
AARON LEONHARDT	JOURNEYMAN	FULL-TIME
JARON RICHARDS	JOURNEYMAN	FULL-TIME
PRESTON MILLS	APPRENTICE LINEMAN	FULL-TIME
GAVIN DAVEY	APPRENTICE LINEMAN	FULL-TIME
KESLER PERKINS	APPRENTICE LINEMAN	FULL-TIME
GREG REMINGTON	SUBSTATION TECHNICIAN	FULL-TIME
TYLER LEWIS	BLUE STAKES	FULL-TIME
STACIE HARWARD	ADMINISTRATIVE	FULL-TIME

2024 POWER SYSTEM REPORT

KWH

	<u>CUSTOMERS</u>	<u>KWH</u>
RESIDENTIAL	9,921	113,450,908
CITY OWNED NET BILLED	70	1,321,139
COMMERCIAL	1,107	51,774,624
INDUSTRIAL	1	2,784,600
***STREET AND AREA LIGHTS		199,192
TOTAL	11,099	

TOTAL ENERGY ACCOUNTED FOR:	169,530,463
TOTAL ENERGY DELIVERED TO METER:	169,331,271
TOTAL LOSSES	199,192
PERCENT SYSTEM LOSSES	.017%

***Street and Area Lights are not calculated into totals.

These lights are owned by Kaysville City

GROWTH STATISTICS FROM 2023 TO 2024

CUSTOMERS

2023 RESIDENTIAL	9,913
2024 RESIDENTIAL	9,921
PERCENT INCREASE	0.00%

SYSTEM LOAD GROWTH

2023 KW DEMAND	49,198
2024 KW DEMAND	53,408
PERCENT INCREASE	8.56%
PERCENT DECREASE	

SYSTEM ENERGY GROWTH

2023 KWH USAGE	163,407,287
2024 KWH USAGE	169,331,271
PERCENT INCREASE	3.63%
PERCENT DECREASE	

NUMBER OF ELECTRICAL CUSTOMERS AND TYPE OF LOAD SERVED

TYPE OF CUSTOMER	NUMBER OF CUSTOMERS		
	2023	2024	% OF LOAD
RESIDENTIAL	9,913	9,921	64.35%
COMMERCIAL	896	1,107	34.13%
INDUSTRIAL	1	1	1.45%
AGRICULTURAL/PUMPING			
MILITARY			
OTHER-CITY OWNED	63	70	0.007%
TOTAL	10,873	11,099	100%

CUSTOMER SALES BY CLASS

Total sales to your customers 169,331,271 KWH.

Revenues from energy sales to your customer is \$18,396,223.00.

	KWH SALES	% OF TOTAL	REVENUES IN \$	% OF TOTAL	AVG. COST PER KWH
RESIDENTIAL	113,450,908	67.0%	\$11,876,934.00	64.56%	10.47¢
CITY OWNED***	1,321,139	0.76%	\$0.00		
COMMERCIAL	51,774,624	30.60%	\$6,264,003.00	30.05%	12.10¢
INDUSTRIAL	2,784,600	1.64%	\$255,286.00	1.39%	9.16¢
AGRICULTURAL					
OTHER					
TOTAL	169,331,271	100%	\$18,396,233.00	100%	10.86¢

KWH SALES

	2023	2024	%
RESIDENTIAL	109,002,708	113,450,908	4.10%
CITY OWNED***			
COMMERCIAL	50,258,883	51,774,624	3.02%
INDUSTRIAL	2,821,800	2,784,600	1.32%
AGRICULTURAL			
OTHER			
TOTAL	163,407,287	169,331,271	3.60%

*** Street Lights/Area Light are not calculated into totals. It is informational use only. These lights are owned by Kaysville City.

REVENUE IN \$

	2023	2024	%
RESIDENTIAL	\$11,151,427.00	\$11,876,934.00	6.50%
CITY OWNED***			
COMMERCIAL	\$5,927,945.00	\$6,264,003.00	5.70%
INDUSTRIAL	\$248,223.00	\$255,286.00	2.80%
AGRICULTURAL			
TOTAL	\$17,327,594.00	\$18,396,223.00	6.20%

SYSTEM DESCRIPTION

Incorporated area of municipality 10.5 square miles.

Service area of utility 10.5 square miles.

Transmission and distribution lines 161.8 miles.

Number of employees in electrical department 15.

Numbers of customers served outside the city limits 0. (Wheel Rocky Mnt. Power)

Service area outside of the city limits 0 square miles.

FIVE LARGEST LOADS

CUSTOMER	TYPE OF CUSTOMER	KWH SALES	ANNUAL ELECTRICAL BILLING
DAVIS SCHOOL DISTRICT	COMMERCIAL	7,561,320	\$1,022,230.00
CENTRAL DAVIS SEWER	COMMERCIAL	3,876,320	\$392,951.00
DAVIS TECHNICAL COLLEGE	COMMERCIAL	3,190,188	\$400,464.00
SMITHS	COMMERCIAL	2,912,320	\$294,097.00
DESERET MILLS	INDUSTRIAL	2,784,600	\$255,286.00

KAYSVILLE CITY POWER AND LIGHT
2024 ACHIEVEMENTS

KAYSVILLE 2024

1. Received an I.P.S.A (Intermountain Power Superintendents Association) safety award for meritorious achievement in attaining a low accident frequency during the year of 2024. 1st place Group C for working 30,000-69,000 with 0 lost time accidents.
2. Received an A.P.P.A (American Public Power Association) Certificate of Excellence in Reliability for the year 2024. This is to acknowledge that Kaysville City Power and Light has significantly exceeded the average for all U.S. electric utilities for reliable electric service. The Utility participates in the American Public Power Association's e-Reliability Tracker service to track its power outages and restoration against national benchmarks.
3. Installation of Power in the following developments:
 - Lilypad Lane Subdivision
 - Westgate Estates Phase 4
 - Flint Acres Subdivision
 - Orchard Ridge Phase 4
 - Lift Station -Central Davis Sewer District
4. Expanded our Substation SCADA into new bays and sections of the substations.
5. The construction is near completion for the new bay in the Schick Substation. Engineered drawings have commenced for the new bay build for the Burton Lane Substation.
6. Deployed the Outage Management System (OMS) city wide. Trained staff on the OMS Dispatch and outage predictive capabilities, along with everyday functions of the system.
7. Pole testing was performed to test the integrity, stability, safety and durability of power poles on our system.
8. Rebuild of King Clarion Area.
9. Crews identified and replaced old infrastructure, material and hardware throughout the city to improve the quality of service we provide.
10. Tree trimmer contractors cleared the power utility right of way, resulting in reduced service interruptions due to growth of vegetation and inclement weather.
11. Installed new inline switches throughout the city for safer more efficient load shedding and switching orders.
12. Infrared camera inspections were conducted throughout the city to locate and repair problem areas on our power system.
13. Continue to train our staff in safety, equipment and newer technology.

HISTORICAL NOTES OF INTEREST

AVERAGE RESIDENTIAL USAGE

YEAR	NUMBER OF CUSTOMERS	ANNUAL KWH SOLD	AVERAGE KWH PER CUSTOMER PER MONTH
2013	8,080	92,730,894	956
2014	8,258	89,920,454	907
2015	8,413	90,845,153	900
2016	8,517	93,766,483	917
2017	8,768	95,621,631	909
2018	8,909	95,334,231	892
2019	9,093	93,748,758	859
2020	9,218	102,781,707	929
2021	9,450	105,410,302	930
2022	9,743	111,613,164	955
2023	9,913	109,002,708	916
2024	9,921	113,450,908	932

AVERAGE COMMERCIAL USAGE

YEAR	NUMBER OF CUSTOMERS	ANNUAL KWH SOLD	AVERAGE KWH PER CUSTOMER PER MONTH
2013	725	44,753,485	5,144
2014	725	45,643,406	5,246
2015	734	47,335,466	5,374
2016	743	50,967,876	5,716
2017	759	51,091,512	5,610
2018	796	49,266,313	5,158
2019	816	48,309,308	4,933
2020	836	47,176,842	4,703
2021	851	50,158,658	4,912
2022	874	50,523,520	4,817
2023	896	50,258,883	4,674
2024	1,107	51,774,624	3,898

SYSTEM LOSSES

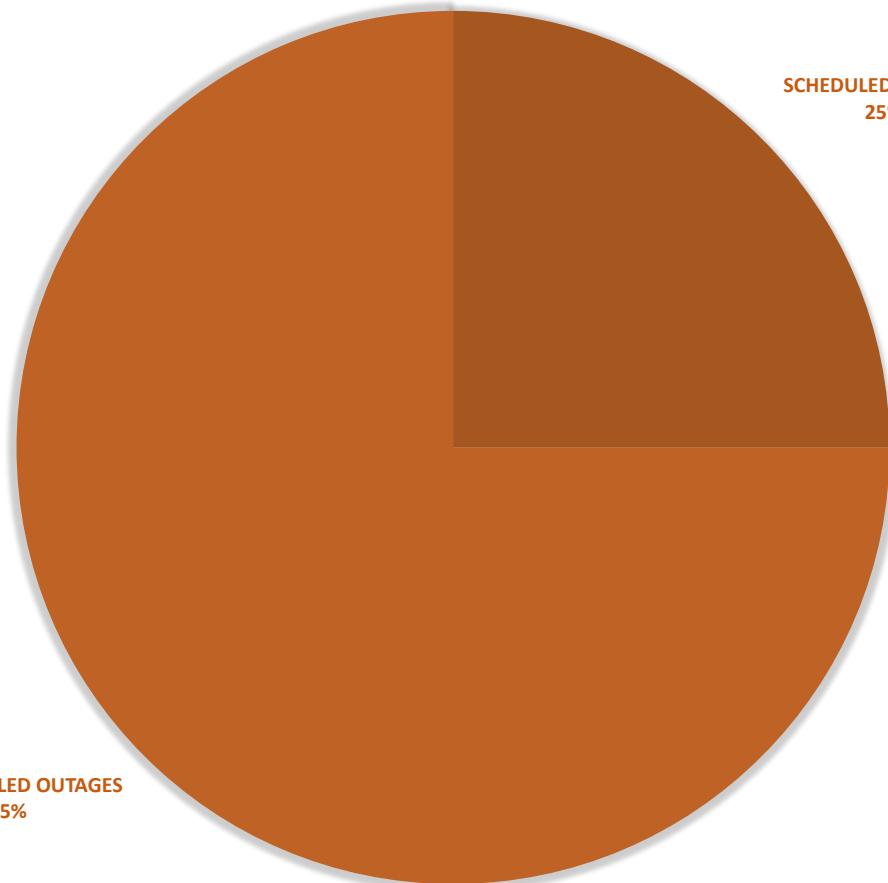
2023

2024

.89%

.017%

2024 TOTAL OUTAGES



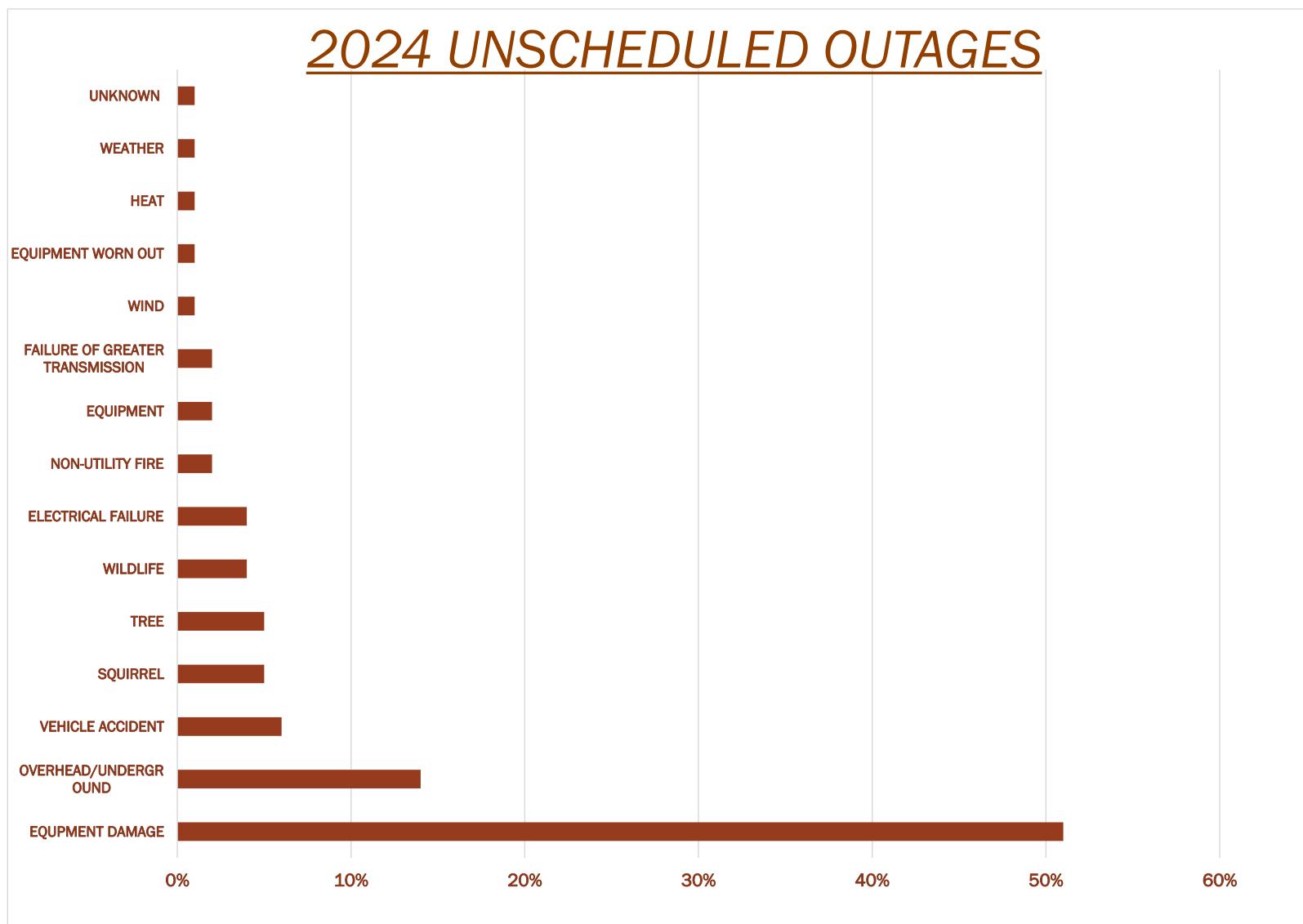
2024 UNSCHEDULED OUTAGE AND TROUBLE CALL SUMMARY

UNSCHEDULED	EVENTS	EVENTS	% OF TOTAL
	2023	2024	
EQUIPMENT DAMAGE	8	41	51%
OVERHEAD/UNDERGROUND	0	11	14%
VEHICLE ACCIDENT	2	4	6%
SQUIRREL	1	4	5%
TREE	3	4	5%
WILDLIFE	1	3	4%
ELECTRICAL FAILURE	10	3	4%
NON-UTILITY FIRE	1	2	2%
EQUIPMENT	2	2	2%
FAILURE OF GREATER TRANSMISSION	0	2	2%
WIND	2	1	1%
EQUIPMENT WORN OUT	0	1	1%
HEAT	0	1	1%
WEATHER	0	1	1%
UNKNOWN	0	1	1%
HUMAN ACCIDENT	1	0	
MANUFACTURING DEFECT	3	0	
WIND	1	0	
TOTAL	35	81	100%
TOTAL PERCENTAGE			

2024 UNSCHEDULED OUTAGES

EQUIPMENT DAMAGE	51%
OVERHEAD/UNDERGROUND	14%
VEHICLE ACCIDENT	6%
SQUIRREL	5%
TREE	5%
WILDLIFE	4%
ELECTRICAL FAILURE	4%
NON-UTILITY FIRE	2%
EQUIPMENT	2%
FAILURE OF GREATER TRANSMISSION	2%
WIND	1%
EQUIPMENT WORN OUT	1%
HEAT	1%
WEATHER	1%
UNKNOWN	1%

2024 UNSCHEDULED OUTAGES

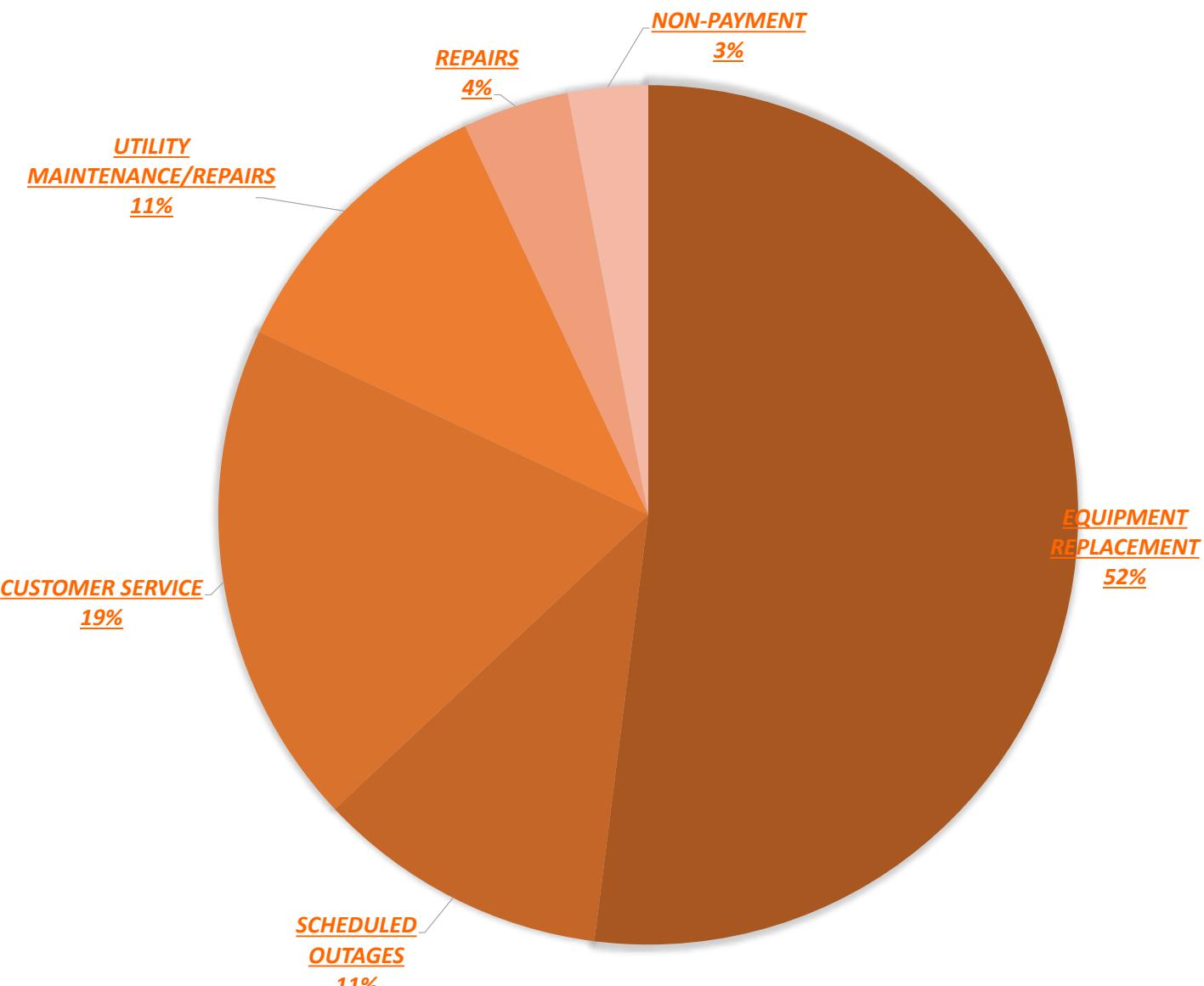


2024 SCHEDULED OUTAGE AND TROUBLE CALL SUMMARY

SCHEDULED	EVENTS	EVENTS	% OF TOTAL
	2023	2024	
EQUIPMENT REPLACEMENT	7	14	52%
SCHEDULED OUTAGES	2	3	11%
CUSTOMER SERVICE	2	5	19%
LOAD SWAP	2	0	
RESIDENTIAL CONSTRUCTION	1	0	
RELOCATION	1	0	
UTILITY MAINTENANCE AND REPAIR		3	11%
NON-PAYMENT		1	3%
REPAIRS		1	4%
ROAD CONSTRUCTION	1	0	
TOTAL	16	27	
TOTAL PERCENTAGE			100%

2024 SCHEDULED OUTAGES
EVENT
EQUIPMENT REPLACEMENT
SCHEDULED OUTAGES
CUSTOMER SERVICE
UTILITY MAINTENANCE/REPAIRS
REPAIRS
NON-PAYMENT

52%
11%
19%
11%
4%
3%



KAYSVILLE CITY
2024 SYSTEM RELIABILITY REPORT
AVERAGE SERVICE AVAILABILITY INDEX (ASAI)

KAYSVILLE 2024

This is the index which has been referred to for several years in the industry as the Index of reliability. It is the ratio of total customer hours that service is available divided by the total customer hours demanded in a time period. An example of customer hours demanded in a year would be the twelve (12) month average number of customers served times the number of hours during the year (i.e. 8760 hours). The expanded formula used for calculating this index is:

Number of customers times hours served, minus sum of customers off, times hours off for each outage, divided by number of customers, times hours served.

Kaysville City 2000 ASAI was 99.942%
Kaysville City 2001 ASAI was 99.9956%
Kaysville City 2002 ASAI was 99.938%
Kaysville City 2003 ASAI was 99.97%
Kaysville City 2004 ASAI was 99.999%
Kaysville City 2005 ASAI was 99.939%
Kaysville City 2006 ASAI was 99.878%
Kaysville City 2007 ASAI was 99.95%
Kaysville City 2008 ASAI was 99.90%
Kaysville City 2009 ASAI was 99.98%
Kaysville City 2010 ASAI was 99.98%
Kaysville City 2011 ASAI was 99.80%
Kaysville City 2012 ASAI was 99.98%
Kaysville City 2013 ASAI was 99.94%
Kaysville City 2014 ASAI was 99.98%
Kaysville City 2015 ASAI was 99.97%
Kaysville City 2016 ASAI was 99.9962%
Kaysville City 2017 ASAI was 99.79%
Kaysville City 2018 ASAI was 99.9936%
Kaysville City 2019 ASAI was 99.9983%
Kaysville City 2020 ASAI was 99.9922%
Kaysville City 2021 ASAI was 99.994%
Kaysville City 2022 ASAI was 99.9925%
Kaysville City 2023 ASAI was 99.9842%
Kaysville City 2024 ASAI was 99.98%