

**KAYSVILLE CITY
POWER AND LIGHT**

**ANNUAL REPORT
2022**

**114 YEARS
OF SERVICE**

KAYSVILLE CITY POWER DEPARTMENT

ANNUAL REPORT 2022

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
JUSTIN PAGE	JOURNEYMAN	FULL-TIME
CHRIS BANZ	APPRENTICE LINEMAN	FULL-TIME
PRESTON MILLS	APPRENTICE LINEMAN	FULL-TIME
GAVIN DAVEY	APPRENTICE LINEMAN	FULL-TIME
PARKER PETERSON	APPRENTICE LINEMAN	FULL-TIME
GREG REMINGTON	SUBSTATION TECHNICIAN	FULL-TIME
MARTY WILLEY (RETIRED IN JUNE)	BLUE STAKES	FULL-TIME
TYLER LEWIS	BLUE STAKES	FULL-TIME
JEFF FILLIN	METER READER	FULL-TIME
STACIE HARWARD	ADMINISTRATIVE	FULL-TIME

2022 POWER SYSTEM REPORT

KWH

	<u>CUSTOMERS</u>	<u>KWH</u>
RESIDENTIAL	9,743	111,613,164
CITY OWNED NET BILLED	61	1,160,767
COMMERCIAL	874	50,523,520
INDUSTRIAL	1	2,828,400
***STREET AND AREA LIGHTS		<u>206,303</u>
TOTAL	10,679	<u>166,332,154</u>

TOTAL ENERGY ACCOUNTED FOR:	166,332,154
TOTAL ENERGY DELIVERED TO METER:	166,865,011
TOTAL LOSSES	532,857
PERCENT SYSTEM LOSSES	.003%

***Street and Area Lights are not calculated into totals.
These lights are owned by Kaysville City

GROWTH STATISTICS FROM 2021 TO 2022

CUSTOMERS

2021 RESIDENTIAL	9,450
2022 RESIDENTIAL	9,743
PERCENT INCREASE	3.1%

SYSTEM LOAD GROWTH

2021 KW DEMAND	51,560
2022 KW DEMAND	52,398
PERCENT INCREASE	1.6%
PERCENT DECREASE	

SYSTEM ENERGY GROWTH

2021 KWH USAGE	159,368,460
2022 KWH USAGE	166,685,011
PERCENT INCREASE	4.7%
PERCENT DECREASE	

NUMBER OF ELECTRICAL CUSTOMERS AND TYPE OF LOAD SERVED

TYPE OF CUSTOMER	NUMBER OF CUSTOMERS		
	2021	2022	% OF LOAD
RESIDENTIAL	9,450	9,743	67%
COMMERCIAL	851	874	30.5%
INDUSTRIAL	1	1	1.5%
AGRICULTURAL/PUMPING			
MILITARY			
OTHER-CITY OWNED	62	61	1%
TOTAL	10,364	10,679	100%

CUSTOMER SALES BY CLASS

Total sales to your customers 166,125,851 KWH.

Revenues from energy sales to your customer is \$16,915,992.00

	KWH SALES	% OF TOTAL	REVENUES IN \$	% OF TOTAL	AVG. COST PER KWH
RESIDENTIAL	111,613,164	67.0%	\$10,877,200.00	64.30%	9.75¢
CITY OWNED***	1,160,767	1.00%			
COMMERCIAL	50,523,520	30.00%	\$5,787,710.00	34.2%	11.46¢
INDUSTRIAL	2,828,400	2.00%	\$251,082.00	1.50%	8.9¢
AGRICULTURAL					
OTHER					
TOTAL	166,125,851	100%	\$16,915,992.00	100%	10¢

KWH SALES

	2021	2022	%
RESIDENTIAL	105,410,302	111,613,164	5.90%
CITY OWNED***	1,136,700	1,160,767	2.1%
COMMERCIAL	50,158,658	50,523,520	.007%
INDUSTRIAL	2,662,800	2,828,400	6.2%
AGRICULTURAL			
OTHER			
TOTAL	159,368,460	166,125,851	4.00%

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

REVENUE IN \$

	2021	2022	%
RESIDENTIAL	\$10,448,431.00	\$10,877,200.00	4.10%
CITY OWNED	\$13.00		
COMMERCIAL	\$4,855,077.00	\$5,787,710.00	19.20%
INDUSTRIAL	\$214,896.00	\$251,082.00	16.8%
AGRICULTURAL			
TOTAL	\$15,518,404.00	\$16,915,992.00	13.40%

SYSTEM DESCRIPTION

Incorporated area of municipality 10.5 square miles.

Service area of utility 10.5 square miles.

Transmission and distribution lines 161.2 miles.

Number of employees in electrical department 16 .

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	8,022,936	\$974,478.00
CENTRAL DAVIS SEWER	COMMERCIAL	3,536,733	\$350,385.00
DATC	COMMERCIAL	3,229,523	\$398,549.00
SMITH'S	COMMERCIAL	2,829,920	\$280,191.00
DESERET MILLS	INDUSTRIAL	2,828,400	\$251,082.00

KAYSVILLE CITY POWER AND LIGHT
2022 ACHIEVEMENTS

KAYSVILLE 2022

1. 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 2022. 1st place Group C for working 30,000-69,000 hours with 0 lost time accidents.
2. Received an A.P.P.A. (American Public Power Association) Certificate of Excellence in Reliability for the year 2022, 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. Rebuild of the Power Feed to the DATC.
4. Installation of Power in the following developments.
 - Harvey Estates Phase 2
 - Larsen Subdivision
 - Crested Peaks Subdivision
 - Orchard Ridge Estates Phase 3
 - Talbot Estates Phase 1
 - Streadbeck Subdivision
 - Heritage Square Townhomes
 - Mutton Hollow Townhomes
5. Installation of Power to Kaysville City Water Tank.
6. Upgraded and installed gang switches at Power Feed Switching points.
7. Rebuilding of King Clarion Area.
8. Crews identified and replaced old infrastructure, material and hardware throughout the city to improve the quality of service we provide.
9. Tree Trimmer contractors cleared the power utility right of way, resulting in reduced service interruptions due to growth of vegetation and inclement weather.
10. Updated our substation databases and replaced outdated control panels and relays.
11. Infrared camera inspections was conducted throughout the city to locate and repair problem areas on our power system.
12. Relocation of power lines on Mutton Hollow Road.
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
2011	7,815	96,227,471	1,026
2012	7,929	91,383,058	960
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

AVERAGE COMMERCIAL USAGE

YEAR	NUMBER OF CUSTOMERS	ANNUAL KWH SOLD	AVERAGE KWH PER CUSTOMER PER MONTH
2011	714	46,438,548	5,420
2012	716	43,407,920	5,052
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

SYSTEM LOSSES

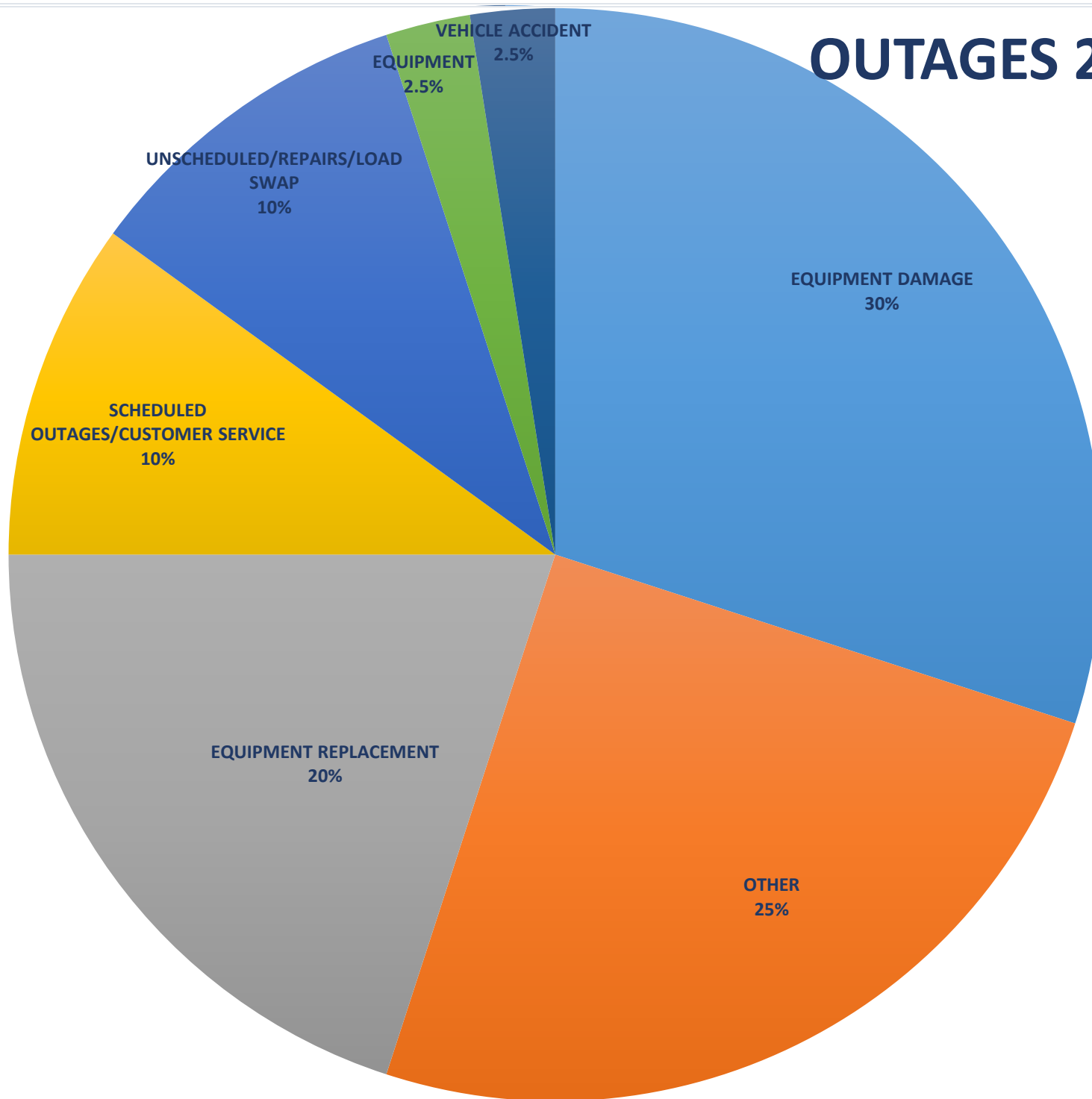
2021 3.19%

2022 1.71%

2022 OUTAGE AND TROUBLE CALL SUMMARY

CATEGORIES	EVENTS	EVENTS	% OF TOTAL
	2021	2022	
SCHEDULED OUTAGES/CUSTOMER SERVICE	8	4	10%
EQUIPMENT	1	1	2.5%
VEHICLE ACCIDENT	0	1	2.5%
EQUIPMENT REPLACEMENT	5	8	20%
TREE	0	0	0%
VANDALISM	0	0	0%
UNSCHEDULED/REPAIRS/LOAD SWAP	4	4	10%
EQUIPMENT DAMAGE	6	12	30%
OTHER CAUSES			
BIRD	0	0	25%
WIND/WEATHER/STORM	3	3	
FAILURE OF GREATER TRANSMISSION	1	0	
SQUIRREL/WILDLIFE	2	0	
HUMAN ACCIDENT	4	1	
ELECTRICAL FAILURE	19	6	
CONTACT WITH FOREIGN OBJECT	0	0	
TOTAL	53	40	
TOTAL PERCENTAGE			100%

OUTAGES 2022



KAYSVILLE CITY
2022 SYSTEM RELIABILITY REPORT
AVERAGE SERVICE AVAILABILITY INDEX (ASAI)

KAYSVILLE 2022

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 1999 ASAI was 99.983%
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%