

**KAYSVILLE CITY
POWER AND LIGHT**

**ANNUAL REPORT
2018**

**110 YEARS
OF SERVICE**

KAYSVILLE CITY POWER DEPARTMENT

ANNUAL REPORT 2018

GARY HATCH	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
TYLER PARKIN	LEAD LINEMAN	FULL-TIME
STEVE RICE	JOURNEYMAN	FULL-TIME
WESLEY JONES	JOURNEYMAN	FULL-TIME
BRIAN JOHNSON	JOURNEYMAN	FULL-TIME
CHRIS BANZ	APPRENTICE LINEMAN	FULL-TIME
EVAN ROBERTS	APPRENTICE LINEMAN	FULL-TIME
ZACH O'BRIEN	APPRENTICE LINEMAN	FULL-TIME
MARTY WILLEY	BLUE STAKES	FULL-TIME
JEFF FILLIN	METER READER	FULL-TIME
STACIE HARWARD	ADMINISTRATIVE	FULL-TIME

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2018 POWER SYSTEM REPORT

KWH

	<u>CUSTOMERS</u>	<u>KWH</u>
RESIDENTIAL	8,909	95,334,231
CITY OWNED NET BILLED	65	1,077,486
COMMERCIAL	796	49,266,313
INDUSTRIAL	1	2,080,800
STREET AND AREA LIGHTS	1,048	728,601
TOTAL	9,771	<u>148,487,431</u>

TOTAL ENERGY ACCOUNTED FOR:	148,487,431
TOTAL ENERGY DELIVERED TO METER:	154,577,395
TOTAL LOSSES	6,089,964
PERCENT SYSTEM LOSSES	4.1%

GROWTH STATISTICS FROM 2017 TO 2018

CUSTOMERS

2017 RESIDENTIAL	8,768
2018 RESIDENTIAL	8,909
PERCENT INCREASE	1.6%

SYSTEM LOAD GROWTH

2017 KW DEMAND	46,358
2018 KW DEMAND	48,007
PERCENT INCREASE	3.6%
PERCENT DECREASE	

SYSTEM ENERGY GROWTH

2017 KWH USAGE	149,581,186
2018 KWH USAGE	147,758,833
PERCENT INCREASE	
PERCENT DECREASE	-1.22%

NUMBER OF ELECTRICAL CUSTOMERS
AND TYPE OF LOAD SERVED

TYPE OF CUSTOMER	NUMBER OF CUSTOMERS		
	2017	2018	% OF LOAD
RESIDENTIAL	8,768	8,909	68%
COMMERCIAL	759	796	31%
INDUSTRIAL	1	1	1%
AGRICULTURAL/PUMPING			
MILITARY			
OTHER-CITY OWNED	62	65	
TOTAL	9,590	9,771	100%

CUSTOMER SALES BY CLASS

Total sales to your customers 147,758,833 KWH.

Revenues from energy sales to your customer is \$13,774,653.00

	KWH SALES	% OF TOTAL	REVENUES IN \$	% OF TOTAL	AVG. COST PER KWH
RESIDENTIAL	95,334,231	64.5%	\$9,213,810.00	67%	9.66¢
CITY OWNED	1,077,486	1%	\$203,203.00	1.50%	
COMMERCIAL	49,266,313	33.1%	\$4,206,967.00	31%	8.54¢
INDUSTRIAL	2,080,800	1.4%	\$150,673.00	1%	7.24¢
AGRICULTURAL					
OTHER					
TOTAL	147,758,833	100%	\$13,774,653.00		

KWH SALES

	2017	2018	%
RESIDENTIAL	95,621,631	95,334,231	-0.003
CITY OWNED	996,043	1,077,486	8.18%
COMMERCIAL	51,091,512	49,266,313	-3.57%
INDUSTRIAL	1,872,000	2,080,800	11.15%
AGRICULTURAL			
OTHER			
TOTAL	149,581,186	147,758,833	

REVENUE IN \$

	2017	2018	%
RESIDENTIAL	\$9,002,023.00	\$9,213,810.00	2.35%
CITY OWNED	\$88,788.00	\$203,203.00	5.60%
COMMERCIAL	\$4,127,314.00	\$4,206,967.00	1.93%
INDUSTRIAL	\$131,829.00	\$150,673.00	14.29%
AGRICULTURAL			
TOTAL	\$13,349,954.00	\$13,774,653.00	

SYSTEM DESCRIPTION

Incorporated area of municipality 10.5 square miles.

Service area of utility 10.5 square miles.

Transmission and distribution lines 157.7 miles.

Number of employees in electrical department 15 .

Numbers of customers served outside the city limits 4 . (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	8,136,530	\$793,089.00
DATC	COMMERCIAL	3,253,653	\$258,305.00
CENTRAL DAVIS SEWER	COMMERCIAL	3,239,169	\$212,450.00
SMITHS MARKET	COMMERCIAL	2,972,480	\$150,295.00
LDS CHURCH	COMMERCIAL	2,130,373	\$304,037.00
TOTAL		19,732,205	\$1,718,176.00

KAYSVILLE CITY POWER AND LIGHT
ACHIEVEMENTS

1. Completed pole inspections. Completed preventive maintenance or replacement was performed in all indicated areas.
2. Implemented AMI meter project.
3. Received an RP3 Gold Award. The RP3 (Reliable Public Power Provider) designation recognizes public power utilities that exhibit operational excellence and demonstrate leading practices in: Reliability, Safety, Workforce Development, and System improvement.
4. Received an I.P.S.A (Intermountain Power Superintendents Association) safety award is for meritorious achievement in attaining a low accident frequency during the year of 2018. 1st place group C for working 30,000-69,000 hours with 0 lost time.
5. Infrared camera inspection is performed throughout the year and repair problem areas where line loss or inefficiencies could create an issue.
6. Crews continue to identify, repair and /or replace older material and hardware to upgrade our service to all customers.
7. Tree trimming contractors cleared the right of way resulting in reduced service interruptions due to tree growth, snow and wind.
8. Continued training our crews 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
2008	7,517	83,683,898	927
2009	7,595	85,036,003	933
2010	7,722	86,123,993	929
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

AVERAGE COMMERCIAL USAGE

YEAR	NUMBER OF CUSTOMERS	ANNUAL KWH SOLD	AVERAGE KWH PER CUSTOMER PER MONTH
2008	680	41,244,144	5,054
2009	697	42,143,213	5,039
2010	702	43,732,710	5,191
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

SYSTEM LOSSES

2017
2.5%

2018
4.1%

2018 OUTAGE AND TROUBLE CALL SUMMARY

CATEGORIES	EVENTS	EVENTS	% OF TOTAL
	2017	2018	
SCHEDULED OUTAGES	36	13	19%
EQUIPMENT	29	5	7%
VEHICLE ACCIDENT	5	1	1%
EQUIPMENT REPLACEMENT	5	16	23%
TREE	3	1	1%
UNSCHEDULED	3	5	7%
EQUIPMENT DAMAGE	2	7	10%
OTHER CAUSES			
BIRD	2	0	32%
WIND	2	0	
FAILURE OF GREATER TRANSMISSION	1	0	
SQUIRREL/WILDLIFE	1	11	
HUMAN ACCIDENT	1	1	
ELECTRICAL FAILURE	1	10	
CONTACT WITH FOREIGN OBJECT	1	0	
TOTAL	92	70	
TOTAL PERCENTAGE			100%

KAYSVILLE CITY
2017 SYSTEM RELIABILITY REPORT
AVERAGE SERVICE AVAILABILITY INDEX (ASAI)

KAYSVILLE 2018

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 1998 ASAI was 99.868%
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%