### Summary of Impact Fee Study Report by Utility Financial Solutions, LLC

#### **Purpose of Impact Fees**

Impact fees are used to fund capital-related costs (e.g., new buildings) incurred in providing governmental service to "new" development. The basic philosophy behind impact fees is that "new" development should bear the additional or "incremental" capital cost incurred and necessary to provide service to the "new" development. This establishes a cost causation or "nexus" requirement between the cost incurred in providing the service and those who benefit from the service. To be clear however, impact fees are not intended to recover annual operating expenses (e.g., utility costs) or to pay for capital expenditures related to the correction of an existing deficiency in the service provided.

The Company currently imposes an impact fee on a request for a new connection or additional service. This impact fee helps the pay a portion of the costs for the new system improvements required to serve the new development. The Company has retained Utility Financial Solutions, LLC to assist in developing an impact fee based on current conditions.

#### Method of Calculating Impact Fees

The UFS Report determines the allowable impact fee based on: (1) the projected additional demand for electricity from the future growth and (2) the Company's cost of constructing system improvements required to deliver this electricity to customers. The additional demand for electricity is based on the Company's projection of future growth in electricity sales caused by new customers added to the system. This projection is consistent with the recent historical growth on the HLP system. The UFS Report uses the Company's growth projections to determine the total, maximum annual demand for electricity from all classes of customers and to determine that projected increase in demand for electricity is 30,845 kW for the period 2021 through 2026.

The cost of system improvements required to serve this additional demand was provided by the Company's Impact Fee Facilities Plan. The UFS Report divides these projected costs by the projected increase in demand to determine the cost/kW of these system improvements. This amount was adjusted by a utilization factor to reflect that typical customers typically use less electric power than the size of a typical connection.

#### Range of Impact Fees

The UFS Report recognizes that the Company's Board may not wish to impose the fully allowable impact fee. It includes a calculation of the value brought to the system by a new customer. A comparison of impact fees from other local entities is included to demonstrate where the HLP rate will settle.

The report is as follows:

# Heber Light & Power Impact Fee Study Results



Mark Beauchamp
President
Utility Financial Solutions, LLC

## Utility Financial Solutions, LLC

- International consulting firm providing cost of service and financial plans and services to utilities across the country, Canada, Guam and the Caribbean
- Instructors for cost of service and financial planning for APPA, speakers for organizations across the country including AWWA.
- Hometown Connections preferred vendor for cost of service and financial analysis.



# Discussion Growth Pays for Growth

- Impacts caused by New Customers
  - Growth causes additional capacity investments
  - The investments tend to occur intermittently
- Value New Customers Provide
  - New customers generate contribution margins in the rates to fund fixed infrastructure costs
  - Cost of service study identifies the fixed and variable cost components used to identify a customer's value

## Investments in System Capacity

Fund Balance		\$ 2,868,079		
Cost Component	Gross Investment	Percent of total	Allocation of Fund Balance	Net Impact
Distribution Local & Substations	\$ 10,742,000	25%	716,188	10,025,812
Distribution Substation	\$ 11,917,000	28%	794,527	11,122,473
System Substations	16,253,900	38%	1,083,676	15,170,224
Transmission System	4,105,000	10%	273,688	3,831,312
Total	\$ 43,017,900			\$ 40,149,821

	Distribution Local & Substations	System Substations	Transmission System	Total		
Total Investment	\$ 21,148,284	\$ 15,170,224	\$ 3,831,312	\$ 40,149,821		
Projected New Loadings	30,845	91,830	27,258			
Residential Loading Average	9.54	2.38	2.38			
Residential Equivalents	3,233	38,603	11,459			
Average Cost per RE	6,542	393	334	7,269		
Contribution Value	-	-	-	2,585		
Impact Average	\$ 6,542	\$ 393	\$ 334	\$ 4,684		

### Value from a New Customer

					Recovery			Maxim	num Utility
	C	OS Revenue	F	ixed Costs	Period			Inves	tment per
Customer Class	Re	equirement	С	ontribution	(Years)	Utility Investi	ment	Cu	stomer
Residential	\$	11,782,845	\$	4,896,097	7	\$ 0.2870	per kWh	\$	2,586
Small Commercial		2,464,627		930,437	5	41.02	per kW		2,608
Medium Commercial		2,915,961		1,143,436	5	42.59	per kW		37,338
Large Commercial		1,602,373		643,665	5	41.57	per kW		180,757

## Proposed Impact Fees

120/240 Volt         120/240 Volt         120/208 Volt         277/480 Volt         Adjustment         Adjustment           10 A         \$ 169.25         \$ 234.19         \$ 351.54         \$ 811.24         \$ 330.72         38           20 A         338.48         468.37         703.06         1,622.42         661.37         38           30 A         507.73         702.57         1,054.61         2,433.66         992.09         38           40 A         676.96         936.74         1,406.13         3,244.84         1,322.75         38           50 A         846.21         1,170.94         1,757.67         4,056.08         1,653.46         38           60 A         1,015.45         1,405.11         2,109.19         4,867.26         1,984.12         38           70 A         1,184.69         1,639.31         2,460.74         5,678.49         2,314.83         38           80 A         1,353.93         1,873.49         2,812.26         6,489.67         2,645.48         38           90 A         1,562.18         2,107.68         3,153.80         7,300.91         2,976.20         38           125 A         2,115.52         2,927.33         4,394.16         10,140.13         4			-				
10 A \$ 169.25 \$ 234.19 \$ 351.54 \$ 811.24 \$ 330.72 38   20 A 338.48 468.37 703.06 1,622.42 661.37 38   30 A 507.73 702.57 1,054.61 2,433.66 992.09 38   40 A 676.96 936.74 1,406.13 3,244.84 1,322.75 38   50 A 846.21 1,170.94 1,757.67 4,056.08 1,653.46 38   60 A 1,015.45 1,405.11 2,109.19 4,867.26 1,984.12 38   70 A 1,184.69 1,639.31 2,460.74 5,678.49 2,314.83 38   80 A 1,353.93 1,873.49 2,812.26 6,489.67 2,645.48 38   90 A 1,523.18 2,107.68 3,163.80 7,300.91 2,976.20 38   100 A 1,692.41 2,341.86 3,515.32 8,112.09 3,306.85 38   125 A 2,115.52 2,927.33 4,394.16 10,140.13 4,133.59 38   150 A 2,538.62 3,512.80 5,272.99 12,168.17 4,960.32 38   175 A 2,961.73 4,098.26 6,151.83 14,196.21 5,787.05 38   200 A 3,384.82 4,683.72 7,030.64 16,224.19 6,613.72 38   200 A 3,384.82 4,683.72 7,030.64 16,224.19 6,613.72 38   200 A 6,769.66 9,367.45 14,061.30 32,448.43 13,227.49 38   200 A 8,462.07 11,709.31 17,576.62 40,560.52 16,514.34 38   800 A 11,846.90 16,393.02 24,607.26 56,784.71 23,148.06 38   800 A 13,539.32 18,734.90 28,122.60 64,896.86 26,454.98 38   900 A 15,231.73 21,076.75 31,637.92 73,008.95 29,761.83 38   1000 A 16,924.15 23,418.61 35,153.24 81,121.05 33,068.70 38   1100 A 25,760.47 38,668.57 89,179.25 36,321.66 38   800 A 25,760.47 38,668.57 89,179.25 36,321.66 38   800 A 25,760.47 38,668.57 89,179.25 36,321.66 38   800 A 25,760.47 38,668.57 89,179.25 36,321.66		Current	Proposed	Proposed	Proposed	Dollar	Percent
20 A       338.48       468.37       703.06       1,622.42       661.37       38         30 A       507.73       702.57       1,054.61       2,433.66       992.09       38         40 A       676.96       936.74       1,406.13       3,244.84       1,322.75       38         50 A       846.21       1,170.94       1,757.67       4,056.08       1,653.46       38         60 A       1,015.45       1,405.11       2,109.19       4,867.26       1,984.12       38         70 A       1,184.69       1,639.31       2,460.74       5,678.49       2,314.83       38         80 A       1,533.93       1,873.49       2,812.26       6,489.67       2,645.48       38         90 A       1,523.18       2,107.68       3,163.80       7,300.91       2,976.20       38         100 A       1,692.41       2,341.86       3,515.32       8,112.09       3,306.85       38         125 A       2,115.52       2,927.33       4,394.16       10,140.13       4,133.59       38         150 A       2,538.62       3,512.80       5,272.99       12,168.17       4,960.32       38         175 A       2,961.73       4,098.26       6,151.83		120/240 Volt	120/240 Volt	120/208 Volt	277/480 Volt	Adjustment	Adjustment
30 A       507.73       702.57       1,054.61       2,433.66       992.09       38         40 A       676.96       936.74       1,406.13       3,244.84       1,322.75       38         50 A       846.21       1,170.94       1,757.67       4,056.08       1,653.46       38         60 A       1,015.45       1,405.11       2,109.19       4,867.26       1,984.12       38         70 A       1,184.69       1,639.31       2,460.74       5,678.49       2,314.83       38         80 A       1,353.93       1,873.49       2,812.26       6,489.67       2,645.48       38         90 A       1,523.18       2,107.68       3,163.80       7,300.91       2,976.20       38         100 A       1,692.41       2,341.86       3,515.32       8,112.09       3,306.85       38         125 A       2,115.52       2,927.33       4,394.16       10,140.13       4,133.59       38         150 A       2,538.62       3,512.80       5,272.99       12,168.17       4,960.32       38         175 A       2,961.73       4,098.26       6,151.83       14,196.21       5,787.05       38         200 A       3,384.82       4,683.72       7,03	10 A	\$ 169.25	\$ 234.19	\$ 351.54	\$ 811.24	\$ 330.72	38.4%
40 A       676.96       936.74       1,406.13       3,244.84       1,322.75       38         50 A       846.21       1,170.94       1,757.67       4,056.08       1,653.46       38         60 A       1,015.45       1,405.11       2,109.19       4,867.26       1,984.12       38         70 A       1,184.69       1,639.31       2,460.74       5,678.49       2,314.83       38         80 A       1,353.93       1,873.49       2,812.26       6,489.67       2,645.48       38         90 A       1,523.18       2,107.68       3,163.80       7,300.91       2,976.20       38         100 A       1,692.41       2,341.86       3,515.32       8,112.09       3,306.85       38         125 A       2,115.52       2,927.33       4,394.16       10,140.13       4,133.59       38         150 A       2,538.62       3,512.80       5,272.99       12,168.17       4,960.32       38         175 A       2,961.73       4,098.26       6,151.83       14,196.21       5,787.05       38         200 A       3,384.82       4,683.72       7,030.64       16,224.19       6,613.72       38         300 A       5,077.25       7,025.59	20 A	338.48	468.37	703.06	1,622.42	661.37	38.4%
50 A       846.21       1,170.94       1,757.67       4,056.08       1,653.46       38         60 A       1,015.45       1,405.11       2,109.19       4,867.26       1,984.12       38         70 A       1,184.69       1,639.31       2,460.74       5,678.49       2,314.83       38         80 A       1,353.93       1,873.49       2,812.26       6,489.67       2,645.48       38         90 A       1,523.18       2,107.68       3,163.80       7,300.91       2,976.20       38         100 A       1,692.41       2,341.86       3,515.32       8,112.09       3,306.85       38         125 A       2,115.52       2,927.33       4,394.16       10,140.13       4,133.59       38         150 A       2,538.62       3,512.80       5,272.99       12,168.17       4,960.32       38         175 A       2,961.73       4,098.26       6,151.83       14,196.21       5,787.05       38         200 A       3,384.82       4,683.72       7,030.64       16,224.19       6,613.72       38         300 A       5,077.25       7,025.59       10,545.98       24,336.34       9,920.63       38         400 A       6,769.66       9,367.45	30 A	507.73	702.57	1,054.61	2,433.66	992.09	38.4%
60 A       1,015.45       1,405.11       2,109.19       4,867.26       1,984.12       38         70 A       1,184.69       1,639.31       2,460.74       5,678.49       2,314.83       38         80 A       1,353.93       1,873.49       2,812.26       6,489.67       2,645.48       38         90 A       1,523.18       2,107.68       3,163.80       7,300.91       2,976.20       38         100 A       1,692.41       2,341.86       3,515.32       8,112.09       3,306.85       38         125 A       2,115.52       2,927.33       4,394.16       10,140.13       4,133.59       38         150 A       2,538.62       3,512.80       5,272.99       12,168.17       4,960.32       38         175 A       2,961.73       4,098.26       6,151.83       14,196.21       5,787.05       38         200 A       3,384.82       4,683.72       7,030.64       16,224.19       6,613.72       38         300 A       5,077.25       7,025.59       10,545.98       24,336.34       9,920.63       38         400 A       6,769.66       9,367.45       14,061.30       32,448.43       13,227.49       38         500 A       8,462.07       11,709.	40 A	676.96	936.74	1,406.13	3,244.84	1,322.75	38.4%
70 A       1,184.69       1,639.31       2,460.74       5,678.49       2,314.83       38         80 A       1,353.93       1,873.49       2,812.26       6,489.67       2,645.48       38         90 A       1,523.18       2,107.68       3,163.80       7,300.91       2,976.20       38         100 A       1,692.41       2,341.86       3,515.32       8,112.09       3,306.85       38         125 A       2,115.52       2,927.33       4,394.16       10,140.13       4,133.59       38         150 A       2,538.62       3,512.80       5,272.99       12,168.17       4,960.32       38         175 A       2,961.73       4,098.26       6,151.83       14,196.21       5,787.05       38         200 A       3,384.82       4,683.72       7,030.64       16,224.19       6,613.72       38         300 A       5,077.25       7,025.59       10,545.98       24,336.34       9,920.63       38         400 A       6,769.66       9,367.45       14,061.30       32,448.43       13,227.49       38         500 A       8,462.07       11,709.31       17,576.62       40,560.52       16,514.34       38         600 A       10,154.49       1	50 A	846.21	1,170.94	1,757.67	4,056.08	1,653.46	38.4%
80 A 1,353.93 1,873.49 2,812.26 6,489.67 2,645.48 38 90 A 1,523.18 2,107.68 3,163.80 7,300.91 2,976.20 38 100 A 1,692.41 2,341.86 3,515.32 8,112.09 3,306.85 38 125 A 2,115.52 2,927.33 4,394.16 10,140.13 4,133.59 38 150 A 2,538.62 3,512.80 5,272.99 12,168.17 4,960.32 38 175 A 2,961.73 4,098.26 6,151.83 14,196.21 5,787.05 38 200 A 3,384.82 4,683.72 7,030.64 16,224.19 6,613.72 38 300 A 5,077.25 7,025.59 10,545.98 24,336.34 9,920.63 38 400 A 6,769.66 9,367.45 14,061.30 32,448.43 13,227.49 38 500 A 8,462.07 11,709.31 17,576.62 40,560.52 16,514.34 38 600 A 10,154.49 14,051.16 21,091.94 48,672.62 19,841.21 38 700 A 11,846.90 16,393.02 24,607.26 56,784.71 23,148.06 38 800 A 13,539.32 18,734.90 28,122.60 64,896.86 26,454.98 900 A 15,231.73 21,076.75 31,637.92 73,008.95 29,761.83 38 1000 A 16,924.15 23,418.61 35,153.24 81,121.05 33,068.70 38 1100 A 25,760.47 38,668.57 89,179.25 36,321.66	60 A	1,015.45	1,405.11	2,109.19	4,867.26	1,984.12	38.4%
90 A 1,523.18 2,107.68 3,163.80 7,300.91 2,976.20 38 100 A 1,692.41 2,341.86 3,515.32 8,112.09 3,306.85 38 125 A 2,115.52 2,927.33 4,394.16 10,140.13 4,133.59 38 150 A 2,538.62 3,512.80 5,272.99 12,168.17 4,960.32 38 175 A 2,961.73 4,098.26 6,151.83 14,196.21 5,787.05 38 200 A 3,384.82 4,683.72 7,030.64 16,224.19 6,613.72 38 300 A 5,077.25 7,025.59 10,545.98 24,336.34 9,920.63 38 400 A 6,769.66 9,367.45 14,061.30 32,448.43 13,227.49 38 500 A 8,462.07 11,709.31 17,576.62 40,560.52 16,514.34 38 600 A 10,154.49 14,051.16 21,091.94 48,672.62 19,841.21 38 700 A 11,846.90 16,393.02 24,607.26 56,784.71 23,148.06 38 800 A 13,539.32 18,734.90 28,122.60 64,896.86 26,454.98 38 900 A 15,231.73 21,076.75 31,637.92 73,008.95 29,761.83 38 1000 A 16,924.15 23,418.61 35,153.24 81,121.05 33,068.70 38 1100 A 25,760.47 38,668.57 89,179.25 36,321.66 38	70 A	1,184.69	1,639.31	2,460.74	5,678.49	2,314.83	38.4%
100 A       1,692.41       2,341.86       3,515.32       8,112.09       3,306.85       38         125 A       2,115.52       2,927.33       4,394.16       10,140.13       4,133.59       38         150 A       2,538.62       3,512.80       5,272.99       12,168.17       4,960.32       38         175 A       2,961.73       4,098.26       6,151.83       14,196.21       5,787.05       38         200 A       3,384.82       4,683.72       7,030.64       16,224.19       6,613.72       38         300 A       5,077.25       7,025.59       10,545.98       24,336.34       9,920.63       38         400 A       6,769.66       9,367.45       14,061.30       32,448.43       13,227.49       38         500 A       8,462.07       11,709.31       17,576.62       40,560.52       16,514.34       38         600 A       10,154.49       14,051.16       21,091.94       48,672.62       19,841.21       38         700 A       11,846.90       16,393.02       24,607.26       56,784.71       23,148.06       38         800 A       13,539.32       18,734.90       28,122.60       64,896.86       26,454.98       38         900 A       15,231.7	80 A	1,353.93	1,873.49	2,812.26	6,489.67	2,645.48	38.4%
125 A       2,115.52       2,927.33       4,394.16       10,140.13       4,133.59       38         150 A       2,538.62       3,512.80       5,272.99       12,168.17       4,960.32       38         175 A       2,961.73       4,098.26       6,151.83       14,196.21       5,787.05       38         200 A       3,384.82       4,683.72       7,030.64       16,224.19       6,613.72       38         300 A       5,077.25       7,025.59       10,545.98       24,336.34       9,920.63       38         400 A       6,769.66       9,367.45       14,061.30       32,448.43       13,227.49       38         500 A       8,462.07       11,709.31       17,576.62       40,560.52       16,514.34       38         600 A       10,154.49       14,051.16       21,091.94       48,672.62       19,841.21       38         700 A       11,846.90       16,393.02       24,607.26       56,784.71       23,148.06       38         800 A       13,539.32       18,734.90       28,122.60       64,896.86       26,454.98       38         900 A       15,231.73       21,076.75       31,637.92       73,008.95       29,761.83       38         1000 A       25	90 A	1,523.18	2,107.68	3,163.80	7,300.91	2,976.20	38.4%
150 A       2,538.62       3,512.80       5,272.99       12,168.17       4,960.32       38         175 A       2,961.73       4,098.26       6,151.83       14,196.21       5,787.05       38         200 A       3,384.82       4,683.72       7,030.64       16,224.19       6,613.72       38         300 A       5,077.25       7,025.59       10,545.98       24,336.34       9,920.63       38         400 A       6,769.66       9,367.45       14,061.30       32,448.43       13,227.49       38         500 A       8,462.07       11,709.31       17,576.62       40,560.52       16,514.34       38         600 A       10,154.49       14,051.16       21,091.94       48,672.62       19,841.21       38         700 A       11,846.90       16,393.02       24,607.26       56,784.71       23,148.06       38         800 A       13,539.32       18,734.90       28,122.60       64,896.86       26,454.98       38         900 A       15,231.73       21,076.75       31,637.92       73,008.95       29,761.83       38         1000 A       16,924.15       23,418.61       35,153.24       81,121.05       36,321.66       38         1000 A       <	100 A	1,692.41	2,341.86	3,515.32	8,112.09	3,306.85	38.4%
175 A       2,961.73       4,098.26       6,151.83       14,196.21       5,787.05       38         200 A       3,384.82       4,683.72       7,030.64       16,224.19       6,613.72       38         300 A       5,077.25       7,025.59       10,545.98       24,336.34       9,920.63       38         400 A       6,769.66       9,367.45       14,061.30       32,448.43       13,227.49       38         500 A       8,462.07       11,709.31       17,576.62       40,560.52       16,514.34       38         600 A       10,154.49       14,051.16       21,091.94       48,672.62       19,841.21       38         700 A       11,846.90       16,393.02       24,607.26       56,784.71       23,148.06       38         800 A       13,539.32       18,734.90       28,122.60       64,896.86       26,454.98       38         900 A       15,231.73       21,076.75       31,637.92       73,008.95       29,761.83       38         1000 A       16,924.15       23,418.61       35,153.24       81,121.05       33,068.70       38         1100 A       25,760.47       38,668.57       89,179.25       36,321.66       38	125 A	2,115.52	2,927.33	4,394.16	10,140.13	4,133.59	38.4%
200 A       3,384.82       4,683.72       7,030.64       16,224.19       6,613.72       38         300 A       5,077.25       7,025.59       10,545.98       24,336.34       9,920.63       38         400 A       6,769.66       9,367.45       14,061.30       32,448.43       13,227.49       38         500 A       8,462.07       11,709.31       17,576.62       40,560.52       16,514.34       38         600 A       10,154.49       14,051.16       21,091.94       48,672.62       19,841.21       38         700 A       11,846.90       16,393.02       24,607.26       56,784.71       23,148.06       38         800 A       13,539.32       18,734.90       28,122.60       64,896.86       26,454.98       38         900 A       15,231.73       21,076.75       31,637.92       73,008.95       29,761.83       38         1000 A       16,924.15       23,418.61       35,153.24       81,121.05       33,068.70       38         1100 A       25,760.47       38,668.57       89,179.25       36,321.66       38	150 A	2,538.62	3,512.80	5,272.99	12,168.17	4,960.32	38.4%
300 A       5,077.25       7,025.59       10,545.98       24,336.34       9,920.63       38         400 A       6,769.66       9,367.45       14,061.30       32,448.43       13,227.49       38         500 A       8,462.07       11,709.31       17,576.62       40,560.52       16,514.34       38         600 A       10,154.49       14,051.16       21,091.94       48,672.62       19,841.21       38         700 A       11,846.90       16,393.02       24,607.26       56,784.71       23,148.06       38         800 A       13,539.32       18,734.90       28,122.60       64,896.86       26,454.98       38         900 A       15,231.73       21,076.75       31,637.92       73,008.95       29,761.83       38         1000 A       16,924.15       23,418.61       35,153.24       81,121.05       33,068.70       38         1100 A       25,760.47       38,668.57       89,179.25       36,321.66       38	175 A	2,961.73	4,098.26	6,151.83	14,196.21	5,787.05	38.4%
400 A       6,769.66       9,367.45       14,061.30       32,448.43       13,227.49       38         500 A       8,462.07       11,709.31       17,576.62       40,560.52       16,514.34       38         600 A       10,154.49       14,051.16       21,091.94       48,672.62       19,841.21       38         700 A       11,846.90       16,393.02       24,607.26       56,784.71       23,148.06       38         800 A       13,539.32       18,734.90       28,122.60       64,896.86       26,454.98       38         900 A       15,231.73       21,076.75       31,637.92       73,008.95       29,761.83       38         1000 A       16,924.15       23,418.61       35,153.24       81,121.05       33,068.70       38         1100 A       25,760.47       38,668.57       89,179.25       36,321.66       38	200 A	3,384.82	4,683.72	7,030.64	16,224.19	6,613.72	38.4%
500 A       8,462.07       11,709.31       17,576.62       40,560.52       16,514.34       38         600 A       10,154.49       14,051.16       21,091.94       48,672.62       19,841.21       38         700 A       11,846.90       16,393.02       24,607.26       56,784.71       23,148.06       38         800 A       13,539.32       18,734.90       28,122.60       64,896.86       26,454.98       38         900 A       15,231.73       21,076.75       31,637.92       73,008.95       29,761.83       38         1000 A       16,924.15       23,418.61       35,153.24       81,121.05       33,068.70       38         1100 A       25,760.47       38,668.57       89,179.25       36,321.66       38	300 A	5,077.25	7,025.59	10,545.98	24,336.34	9,920.63	38.4%
600 A       10,154.49       14,051.16       21,091.94       48,672.62       19,841.21       38         700 A       11,846.90       16,393.02       24,607.26       56,784.71       23,148.06       38         800 A       13,539.32       18,734.90       28,122.60       64,896.86       26,454.98       38         900 A       15,231.73       21,076.75       31,637.92       73,008.95       29,761.83       38         1000 A       16,924.15       23,418.61       35,153.24       81,121.05       33,068.70       38         1100 A       25,760.47       38,668.57       89,179.25       36,321.66       38	400 A	6,769.66	9,367.45	14,061.30	32,448.43	13,227.49	38.4%
700 A       11,846.90       16,393.02       24,607.26       56,784.71       23,148.06       38         800 A       13,539.32       18,734.90       28,122.60       64,896.86       26,454.98       38         900 A       15,231.73       21,076.75       31,637.92       73,008.95       29,761.83       38         1000 A       16,924.15       23,418.61       35,153.24       81,121.05       33,068.70       38         1100 A       25,760.47       38,668.57       89,179.25       36,321.66       38	500 A	8,462.07	11,709.31	17,576.62	40,560.52	16,514.34	38.4%
800 A       13,539.32       18,734.90       28,122.60       64,896.86       26,454.98       38         900 A       15,231.73       21,076.75       31,637.92       73,008.95       29,761.83       38         1000 A       16,924.15       23,418.61       35,153.24       81,121.05       33,068.70       38         1100 A       25,760.47       38,668.57       89,179.25       36,321.66       38	600 A	10,154.49	14,051.16	21,091.94	48,672.62	19,841.21	38.4%
900 A 15,231.73 21,076.75 31,637.92 73,008.95 29,761.83 38 1000 A 16,924.15 23,418.61 35,153.24 81,121.05 33,068.70 38 1100 A 25,760.47 38,668.57 89,179.25 36,321.66 38	700 A	11,846.90	16,393.02	24,607.26	56,784.71	23,148.06	38.4%
1000 A       16,924.15       23,418.61       35,153.24       81,121.05       33,068.70       38         1100 A       25,760.47       38,668.57       89,179.25       36,321.66       38	800 A	13,539.32	18,734.90	28,122.60	64,896.86	26,454.98	38.4%
1100 A 25,760.47 38,668.57 89,179.25 36,321.66 38	900 A	15,231.73	21,076.75	31,637.92	73,008.95	29,761.83	38.4%
	1000 A	16,924.15	23,418.61	35,153.24	81,121.05	33,068.70	38.4%
	1100 A		25,760.47	38,668.57	89,179.25	36,321.66	38.4%
1200 A 28,102.33 42,183.88 97,286.58 39,623.75 38	1200 A		28,102.33	42,183.88	97,286.58	39,623.75	38.4%

## Proposed Impact Fees

	Proposed	Proposed	Dollar	Percent
	120/208 Volt	277/480 Volt	Adjustment	Adjustment
1300 A	45,699.20	105,393.91	42,925.91	38.4%
1400 A	49,214.53	113,501.24	46,227.94	38.4%
1500 A	52,729.85	121,608.57	49,530.04	38.4%
1600 A	56,245.18	129,714.52	52,830.75	38.4%
1700 A	59,760.51	137,821.85	56,132.85	38.4%
1800 A	63,275.83	145,929.18	59,434.94	38.4%
1900 A	66,791.16	154,036.51	62,737.04	38.4%
2000 A	70,306.47	162,143.84	66,039.13	38.4%
2500 A	87,883.10	202,680.49	82,549.60	38.4%
3000 A	105,459.71	243,217.14	99,060.08	38.4%

## Survey of Impact Charges

				er Municip			
		St.	Santa	Hurricane	Dixie	Heber	
	Description / Panel Rating	George	Clara City	City (3)	Power	City (5)	Average
		(c)	(d)	(f)	(f)	(g)	(h)
	Residential (120/240. 1 phase)						
1	200 Amp	4,809	3,798	1,946	3,950	4,684	3,837
2	400 Amp	8,244	7,596	3,892	6,900	9,367	7,200
	Commercial (130/340, 1 phase)						
2	Commercial (120/240. 1 phase)	C F20	4 105	2.676	2.050	4 604	4.00
3	200 Amp	6,529	4,185	3,676	3,950	4,684	4,605
4	400 Amp	13,058	8,370	7,352	7,900	9,367	9,209
5	600 Amp	19,587	12,554	11,028	9,850	14,051	13,414
	Commercial (200Y/120V. 3 phase)						
6	200 Amp	13,068	6,282	5,518	6,666	7,031	7,713
7	400 Amp	26,136	12,563	11,036	11,850	14,061	15,129
8	600 Amp	39,204	18,845	16,555	17,775	21,092	22,694
	Commercial (480Y/277V. 3 phase)						
9	200 Amp	30,157	14,496	12,734	15,386	16,224	17,799
10	400 Amp	60,315	28,992	25,468	27,354	32,448	34,915
11	800 Amp	120,629	57,985	38,202	54,708	64,897	67,284
12	1200 Amp	180,944	86,977	76,406	82,061	97,287	104,735

Transformer Loading based on Non Coincident Peaks

*Engineer recomr	nends th	at transi	ormer no	ot be regulary loa	aded above 50%		_	on Non Coincid		preserve transfo	rmer life	ı	KVA divid	ed by KW			Without Capi	tal Improve	nts				
Substation Transformer		2021	•	Transformer Load at 100% PF Actual Power Factor	KW Rating  Current Loading  Optimal Loading*	Base - Transformer Rating (kW)	Mid Transformer	Max (Total) Transformer Rating (kW) Optimal Load (50% of MAX)	% of Optimal* Transformer Loading	KW above(+) or Below (-) Optimal Transformer Capacity	Substation Transformer		2025	•	Transformer Load at 100% PFActual Power Factor	KW Rating  Current  Loading -  Optimal  Loading*	Base	Mid Transform er Rating (kW)	Max (Total) Transform er Rating (kW)  NCP KW  Optimal Load (50% of MAX)	% of Optimal* Transformer Loading	KW above(+) or Below (-) Optimal Transformer Capacity	KW above (+) or below (-) Max Transform	2022 Load KW above (+) or below (-) Max Transform er Capacity
	NCP	%Base	%Total	ractor		kW	kW	kW			-	NCP kW	%Base	%Total			kW	kW	kW				
Midway	kW			8330.612245	V\\\						Midway				12,954	KW							
Transformer				8330.612245	KW Current	10000	12500	14000			Transformer 10/12.5/14				12,954	Current	10,000	12,500	14,000				
10/12.5/14 MVA	8,164	83%	58%		Loading	8164.00		8164			MVA	12,954	130%	93%		Loading	12,954		12,954				
46 kV – 12.47 kV				98%	Optimal Loading*			6860	119%	1,304	46 kV – 12.47 kV				100%	Optimal Loading*			7,000	185%	5,954	6,094	5,954
Provo River				5535.353535	KW	5000.00		5000			Provo River				8,034	KW	12,000		20,000				
5 MVA (with fans)	5,480	111%	100%		Current Loading	5480.00		5480			(2)12/16/20 MVA	8,034	67%	40%		Current Loading			8,034		5221.00		
46 kV – 12.47 kV				99%	Optimal			2475.00	221%	3005	46 kV – 12.47				100%	Optimal			10,000	80%	-1966	5,559	(1.060)
Heber T1				8174.468085	Loading* KW	12000	16000	20000			kV Heber T1				10,096	Loading* KW	12,000	16,000	20,000			5,559	(1,966)
12/16/20 MVA					Current	7684.00		7223			12/16/20 MVA					Current	9,591	,	11,363				
	7,684	68%	38%		Loading Optimal	7001100					46 kV – 12.47	9,591	84%	48%		Loading Optimal	3,331						<del>                                     </del>
46 kV – 12.47 kV				94%	Loading*			9400	77%	(2,177)	kV				95%	Loading*			9,500	120%	1,863	191	1,863
Heber T2				9480	KW Current	12000	16000	20000			Heber T2				16,031	KW Current	12,000	16,000	20,000				
12/16/20 MVA	9,444	80%	47%		Loading	9444		9255			12/16/20 MVA	16,031	134%	80%		Loading	16,031		16,031				
46 kV – 12.47 kV				98%	Optimal Loading*			9800	94%	(545)	46 kV – 12.47 kV				100%	Optimal Loading*			10,000	160%	6,031	6,231	6,031
Cloyes				5475	KW	7500		9375			Cloyes				6,349	KW	7,500		9,375			-, -	-,
7.5/9.375 MVA	6,032	86%	64%		Current Loading	6032		5610			7.5/9.375 MVA	6,032	85%	64%		Current Loading	6,032		6,032				
46 kV – 4.16 kV	0,032	0070	0470	93%	Optimal			4359	129%	1 250	46 kV – 4.16 kV	0,032	0370	0470	95%	Optimal			4,453	135%	1,579		
Jailhouse T1				6900	Loading* KW	10000	12500	14000	12370	1,230	Jailhouse T1				13,408	Loading* KW	10,000	12,500	14,000	15570	1,373	1,673	1579
10/12.5/14 MVA				0900	Current	6789	12300	6789			10/12.5/14				13,408	Current	13,408	12,300	13,408				
10/12.5/14 1017A	6,789	69%	48%		Loading Optimal	0/03					MVA 46 kV – 12.47	13,408	134%	96%		Loading Optimal	13,400		13,400				<u> </u>
46 kV – 12.47 kV				99%	Loading*			6930	98%	(141)	kV 12.47				100%	Loading*			7,000	192%	6,408	6,478	6408
Jailhouse T2				10200	KW	12000	16000	20000			Jailhouse T2				11,770	KW	12,000	16,000	20,000				<u> </u>
12/16/20 MVA	9,944	85%	50%		Current Loading	9944		9944			12/16/20 MVA	11,652	98%	58%		Current Loading	11,652		11,652				
46 kV – 12.47 kV				97%	Optimal Loading*			9700	103%	244	46 kV – 12.47 kV				99%	Optimal Loading*			9,900	118%	1,752	1,952	1752
College				1440	KW	12000	16000	20000			College				8,238	KW	12,000	16,000	20,000			3,000	
(2) 12/16/20 MVA	1394	12%	7%		Current Loading	1394		1394			(2) 12/16/120 MVA	8073.61	69%	40%		Current	8,074		8,073				
46 kV – 12.47 kV	1554	1270	770	97%	Optimal			10000			46 kV – 12.47	0075.01	0570	4070	98%	Loading Optimal			9,800	82%	(1,727)		
					Loading*						kV				3676	Loading*				0270	(1,727)	-1,926	-1727
East Substation				0	KW	12000	16000	20000			East Substation				-	KW	12,000	16,000	20,000				<u> </u>
(2) 12/16/120 MVA	0	0%	0%		Current Loading						(2) 12/16/120 MVA	0	0%	0%		Current Loading	-		-				
46 kV – 12.47 kV				0%	Optimal						46 kV – 12.47				0%	Optimal			10,000	0%	(10,000)		(10,000)
Total City	54,931				Loading* KW	63500.00	73000.00	97375.00			kV Total City				89,260	Loading* KW	87,500	89,000	117,375		. , ,	26,251	
Not including College		87%	56%	97%	Current Loading Optimal	54931.00	0.00	53858.84			including College & East	85,775	102%	73%	98%	Current Loading Optimal	77,741	-	0.,.2		29173 (above optimal at 2021 transformer cap)	NCP KW above optimal loading of existing	KW above optimal loading of 2025
1		I			Loading*			59524.38	90%	(5,666)	1					Loading*	I		59,624	142%	9,893	30,844	

#### **Proposed Improvements**

Proposed system improvements are summarized in the following tables. A brief description and explanation of each improvement are given. Project numbers match system maps that show proposed improvements.

	Proposed System Improve	ements		
Proposed	Reason/Explanation	Approximate	Approximate	Added
Improvement		Cost	Time Frame	Capacity
1. Install new	Heber needs a second point of interconnection	\$15,336,985	2021-2023	100 MVA
2nd point of	substation with PacifiCorp in order to keep up			
interconnection	with load growth. The single point of			
Substation.	interconnection that they have now is not large			
	enough to accommodate future load growth.			
	New substation will include a 60/80/100/112			
	MVA 138 kV to 46 kV transformer with room			
2. Install a new	for a future transformer.	\$4.064.466	2021 2022	12 MAYA
distribution	Provo River transformer is out of capacity	\$4,964,466	2021-2023	13 MVA
substation	according to nameplate rating during peak load when Snake Creek Hydro generation is off.			
located at the	Transformer fans have been added that are not			
new 2nd point	reflected on the nameplate which increases the			
of	transformer capacity, but it is unknown by how			
interconnection.	much.			
	During an outage of Midway transformer the			
	Provo River transformer needs to have more			
	capacity in order to be able to restore power to			
	MW101 and MW102 circuits.			
	It is proposed to replace the Provo River			
	substation with a new substation located at the			
	2nd point of interconnection. Substation will			
3. Rebuild the	include (2) 12/16/20 MVA transformers.	¢2 (55 02)	2024	0.1477.4
46 kV front end	The 46 kV front end of Midway substation is in need of an upgrade. A new switchrack with (4)	\$2,655,926	2024	0 MVA
of Midway	46 kV breakers will be installed.			
substation.	40 KV breakers will be histalied.			
4. Demolition	Provo River substation is not large enough to be	\$70,920	2023	Needed as
of Provo River	able to keep up with future load growth. It is	\$70,720	2023	part of
Substation	being replaced by a new substation located at			project 2
	the 2nd PacifiCorp interconnection. Provo			1 3
	River substation has reached end of life and			
	will be demolished.			
5. Rebuild 46	In order to accommodate a new substation in	\$1,248,298	2024	Needed as
kV line from	the east part of Heber the 46 kV line from			part of
Jailhouse tap to	Jailhouse tap to Jailhouse needs to be rebuilt.			project 7
Jailhouse.	The line should be built at 138 kV, but			
Line should be	energized at 46 kV.			
built at 138 kV,				
but energized at				
46 kV.				

	Proposed System Improv	ements		
Proposed	Reason/Explanation	Approximate	Approximate	Added
Improvement		Cost	Time Frame	Capacity
6. New 46 kV	In order to accommodate a new substation in	\$2,010,606	2024	Needed as
line from	the east part of Heber a new 46 kV line from			part of
Jailhouse to	Jailhouse to the new substation needs to be			project 7
new substation	built. The line should be built at 138 kV, but			
in the east of	energized at 46 kV.			
Heber.				
Line should be				
built at 138 kV,				
but energized at				
46 kV.				
7. Install a new	A new substation in the east part of Heber is	\$5,771,942	2026	18 MVA
substation in	required to be built due to load growth. The	, , , , ,		
the east part of	new substation should include (2) 12/16/20			
Heber.	MVA transformers.			
8. Install	It is necessary to install double circuit 12.47 kV	\$654,525	2022	Needed as
double circuit	underbuild on existing 46 kV transmission in	, voc 1,c 2c		part of
12.47 kV	order to get two circuits from the new			project 2
underbuild on	distribution substation located at the new 2nd			project 2
existing 46 kV	point of interconnection over to the area			
transmission.	currently fed by Provo River substation. The			
	new substation will feed the Provo River			
	circuits since Provo River substation is being			
	taken out of service and demolished.			
9. Rebuild part	During an outage of the Midway transformer,	\$325,943	2022	6.4 MVA
of PR201	upgrades to PR201 circuit are needed to be able	, veze, sie		01111111
circuit with 477	to restore power to MW101 and MW102			
ACSR	circuits. This upgrade will improve capacity			
conductor.	and help reduce voltage drop.			
	and the first seemed and by			
	It is proposed to upgrade PR201 from Provo			
	River substation to approximately 600 East			
	Main Street. Existing conductor is 4/0 ACSR			
	and it is proposed to upgrade to 477 ACSR.			
10. Rebuild	When Snake Creek Hydro generation is off,	\$444,969	2022	9.5 MVA
part of PR201	part of the PR201 main trunk line is overloaded	, ,, ,, ,,	-	
circuit with 477	during peak load.			
ACSR				
conductor.	During an outage of the Midway transformer,			
	upgrades to PR201 circuit are needed to be able			
	to restore power to MW101 and MW102			
	circuits. This upgrade will improve capacity			
	and help reduce voltage drop.			
	It is proposed to upgrade PR201 along River			
	Road from Main Street to 300 North and from			
	700 North to Burgi Lane. Existing conductor is			
	#2 ACSR and it is proposed to upgrade to 477			
	ACSR.			

	Proposed System Improv			
Proposed	Reason/Explanation	Approximate	Approximate	Added
Improvement		Cost	Time Frame	Capacity
11. Rebuild part of CL402 circuit with 477 ACSR conductor.	During an outage of the Midway transformer, upgrades to circuit CL402 are needed so that circuit CL402 can be used to restore power to circuit MW104.  During an outage of the Cloyes transformer,	\$1,296,001	2025	9.5 MVA
	upgrades to circuit CL402 are needed so that circuit HB303 can be used to restore power to circuit CL402.			
	It is proposed to upgrade CL402 from Cloyes substation to Tate Lane Hwy 113, from 1900 South Casperville Road to 2400 South 2650 West and from 600 West 800 South to 600 West 1000 South. Existing conductor is #2 ACSR and it is proposed to upgrade to 477 ACSR.			
12. Rebuild part of MW101 and MW102 circuits with 477 ACSR conductor.	During an outage of the Provo River transformer, upgrades to circuit MW101 are needed so that circuit MW101 can be used to restore power to circuit PR201.  It is proposed to upgrade MW101 from Midway substation to Main Street Center Street.  Existing conductor is 4/0 ACSR and it is	\$938,108	2025	6.4 MVA
	proposed to upgrade to 477 ACSR.  It is proposed to upgrade MW101 and MW102 circuits from 220 W Main Street to 300 East Main Street. Existing conductor is 4/0 ACSR and it is proposed to upgrade to 477 ACSR.  It is proposed to upgrade MW102 circuit from			
10 7 11 1	300 W Main Street to 200 N 300 W. Existing conductor is 4/0 ACSR and it is proposed to upgrade to 477 ACSR.	#1 000 000	2022	1 ) (()
13. Install a 1 MW Battery System in the Timber Lakes area.	Model shows voltage issues at the end of JH502 circuit during peak load (4% drop).  It is proposed to install a 1 MW Battery System on JH502 circuit in the Timber Lakes area.  Battery will help support voltage by reducing current flow on JH502 during peak load.	\$1,000,000  *No cost estimate developed. Cost was estimated by Heber City Light & Power.	2022	1 MW

	Proposed System Improv	ements		
Proposed	Reason/Explanation	Approximate	Approximate	Added
Improvement		Cost	Time Frame	Capacity
14. Rebuild part of HB305 circuit with 477 ACSR conductor.	During an outage of Heber T1 transformer, upgrades to circuit HB305 are needed so that circuit HB305 can be used to restore power to circuit HB303.	\$67,262	2022	9.5 MVA
	It is proposed to upgrade HB305 circuit from 600 W 200 S to 600 W 300 S. Existing conductor is #2 ACSR and it is proposed to upgrade to 477 ACSR.			
15. Rebuild part of JH502 and JH503 circuits with 1100 kcmil.	During an outage of Jailhouse T2 transformer, upgrades to circuits JH502 and JH503 are needed so that circuit JH503 can be used to restore power to half of circuit JH502. Power to the other half of JH502 circuit can be restored by circuit HB304.	\$528,958	2026	8.1 MVA
	It is proposed to upgrade JH502 and JH503 circuits from 800 South Old Mill Drive to 2200 South Old Mill Drive Mill Drive. Existing conductor is #2 underground cable and it is proposed to upgrade to 1100 kcmil underground cable.			
16. Install CO703 and CO704 circuits.	Install College substation circuits CO703 and CO704. The circuits are going to be needed to in order to support load growth. This project gets the circuits ready to use. Developers will extend the circuits as necessary as load is added to them.	\$203,514	2024	12.9 MVA
17. Install underground line on circuit CO701.	Install underground line on circuit CO701. This is new underground line is necessary to feed additional load on the CO701 circuit.	\$1,349,869	2023	12.9 MVA
	Total	\$38,868,292		

#### Heber Light & Power - Five Year Forecast and Capital Improvement Plan

Project Status	Added Capacity	y						•••					
Upcoming Projects			Impact Fee Related %	Total	Impact Fee	Projected Prior	Cost (\$1,0 2021	00) 2022	2023	2024	2025	2026	Priority
Buildings													
Partial Completion	N/A	Generator Fire Suppression System	0%	\$ 2,515	\$ -	376	291	498	684	666	-	-	M
Ongoing	N/A	New Office Building	0%	\$ 8,423	\$ -	113	300	8,010	=	-	=	-	M
Fall - 2021 Completion	N/A	EV Charging Systems	0%	\$ 130	\$ -	-	130	-	-	-	-	-	M
Partner Driven Hold	N/A	Millflat Water Line Replacement	0%	\$ 50	\$ -	-	50	-	-	-	-	-	Н
Completed	N/A N/A	Plant 2 Switchgear Room AC Unit	0% 0%	\$ 18 \$ 55	\$ - \$ -	=	18 55	-	-	-	=	-	M M
Ongoing 2021 Portion Complete	N/A N/A	Gas Plant Security Measures Plant HVAC Upgrades	0%	\$ 327	\$ -	_	35 85	- 74	84	84	-	-	M H
Not Started	N/A	Plant 1 Electrical Backroom Upgrades	0%	\$ 50	\$ -		50	-	-	-	_	_	M
110t Started	11/11	Time I Electrical Dictioon opposition	0,0	\$ 11,568	<i>s</i> -	489	979	8,582	768	750			
Generation													
Ongoing	N/A	Annual Generation Capital Improvements	0%	\$ 350	\$ -	-	50	50	50	200	-	-	Н
Ongoing	N/A	Lower Snake Creek Plant Upgrade	0%	<b>\$</b> 35	\$ -	-	15	5	5	5	5	-	M
Ongoing	N/A	Upper Snake Creek Capital Improvements	0%	\$ 25	\$ -	-	5	5	5	5	5	-	M
Ongoing	N/A	Lake Creek Capital Improvements	0%	\$ 30	\$ -	-	5	5	5	15	5	-	M
2021 Completed	(2.3MW, 1MW)		0%	\$ 4,830 \$ 459	\$ - \$ -	-	1,000	1,315	- 02	1,215	1,300	-	M
Ongoing Planning	N/A N/A	Unit Overhauls Gas Plant 1 XFMR Upgrade	0% 0%	\$ 459 \$ 500	\$ - \$ -	-	-	188	83	188 500	-	-	M L
Planning	N/A	Gas Plant 2 XFMR Upgrade	0%	\$ 500 \$ 500	\$ - \$ -	_	_	_	_	500	500	_	L
2022 scheduled	N/A	Gas Plant 3 Switchgear Upgrade	0%	\$ 280	\$ -	100	_	180	_	_	-	_	L
Planning	N/A	Lake Creek Bearing Replacement	0%	<b>\$</b> 10	\$ -	=	=	-	=	-	10	-	L
Waiting on DAQ	N/A	Gas Plant Exhaust Compliance (WO 10813)	0%	\$ 300	\$ -	-	=.	300	-	=	-	-	M
Completed	N/A	Unit 8 Jacket Heater (WO 10017)	0%	\$ 8	\$ -	-	8	-	-	-	-	-	M
August 2021 Completed	N/A	Unit 8 Generator Replacement (WO 10843)	0%	<b>\$</b> 178	\$ -	-	178	-	-	-	-	-	Н
Pushing to 2022	N/A	Lake Creek Breaker Replacement (WO 10016)	100%	<b>\$</b> 75	\$ 75	-	75	-	-	-	-	-	M
Partner Decision Pend	N/A	Mobile Standby Generator	0%	\$ 66	\$ -			66		-			Н
				\$ 7,646	§ 75	100	1,336	2,114	148	2,128	1,825	-	
Lines													
October 2021 Complete	0 MVA	Cross Valley Transmission Line (2nd POI)	100%	\$ 6,819	\$ 6,819	2,864	3,300	655	-	-	-	-	H
Ongoing	0 MVA	Underground System Improvements	0%	\$ 756	\$ -	6	150	150	150	150	150	-	L
Ongoing	0 MVA	Aged & Environmental Distribution Replacement/Upgrade	0%	\$ 900 \$ 50	\$ - \$ -	150	150 10	150 10	150	150	150 10	-	L L
Ongoing Planning	0 MVA 15.9 MVA	Fault Indicator - Underground System Rebuild PR201_Main Street to Burgi Lane	0% 100%	\$ 50 \$ 771	\$ - \$ 771	_	-	771	10	10	10	-	H
Partial / Planning	25 MVA	Additional Circuits out of Jailhouse to the East	100%	\$ 560	\$ 560	280	_	140	140	=	_	_	Н
Planning	25.8 MVA	Additional Circuits out of College to South and East	100%	\$ 1,554	\$ 1,554	-	_	-	1,350	204	_	_	Н
Planning	0 MVA	Install Voltage Regulators at Timber Lakes Gate	100%	\$ 100	\$ 100	-	=	100	-	=	=	-	M
Planning	25 MVA	Heber Substation Additional Circuits (South & West)	100%	\$ 280	\$ 280	-	=	280	-	-	-	-	M
Planning	9.5 MVA	Reconductor HB305_600 West - Substation to 300 South	100%	<b>\$</b> 67	\$ 67	=	=	67	=	-	=	-	Н
Planning	0 MVA	Midway Substation - Get Aways	50%	<b>\$</b> 160	\$ 80	-	=	-	160	-	-	-	Н
Planning	5 MVA	Load to Parsons (Reconductor)	0%	\$ 100	\$ -	-	-	-	100	-	-	-	L
Planning	9.5 MVA	Reconductor Heber City Main 600 S to 1000 S	100%	\$ 100	\$ 100	-	-	-	100	2.050	-	-	L
Planning	0 MVA	Jailhouse Tap Transmission Line and East Extension	100% 60%	\$ 3,259 \$ 180	\$ 3,259 \$ 108	-	=	=	-	3,259 180	-	=	L H
Planning Planning	8 MVA 8.1 MVA	Reconductor Pine Canyon Road - Midway Reconductor JH502/503_Old Mill Drive - 800 South to 1200 South		\$ 100	\$ -	-	-	-	-	100	_	529	L
Planning	6.4 MVA	Reconductor MW101/102 from 4/0 to 477	100%	\$ 938	\$ 938		_	_	_	_	938	-	L.
Planning	9.5 MVA	Rebuild CL402_600 West to Tate Lane	100%	\$ 1,296	\$ 1,296	-	=	-	=	-	1,296	-	L
Completed	0 MVA	Holmes Homes Subdivision Asset Purchase	100%	<b>\$</b> 150	\$ 150	-	150	-	=	-	-	-	Н
Design/Contractor Queue	9.5 MVA	New Circuit to Hwy 32	100%	\$ 720	\$ 720	-	720	-	-	-	-	-	Н
Planning	5 MVA	Tie line from 305 to 402 to 303	100%	\$ -	\$ -	-	-	-	-	-	-	-	M
Customer Driven	5 MVA	Tie from 702 up to 500 East in Heber (HB304)	100%	\$ -	\$ -								Н
				\$ 18,760	\$ 16,802	3,300	4,480	2,323	2,160	3,953	2,544	529	
Substation Design - Summer 2022	100 MVA	2nd Point of Interconnect Substation	70%	\$ 15,337	\$ 3,000	2,432	2,605	10,300					Н
Ongoing	0 MVA	Replacement Recloser for Joslyn Reclosers	0%	\$ 13,337	\$ 3,000	2,432 75	2,003	-	-	-	-	-	L
Ongoing	0	Substation Bird Guard	0%	\$ 15	\$ -	6	6	3	_	_	_	_	Н
Planning	18 MVA	East Substation	100%	\$ 750	\$ 750	-	750	-	-	-	-	5,772	M
Planning	0	Cloyes LTC Rebuild	0%	\$ 40	\$ -	-	-	-	-	40	-	-	M
Design - Summer 2022	13 MVA	Provo River Substation Rebuild	100%	\$ 5,035	\$ 5,035	=	=	4,964	71	=	=	=	M
CY2022	0	Battery Replacement Program	0%	\$ 29	\$ -		-	10	-	19	8	-	L
Planning	0	Midway Substation - High Side Rebuild	90%	\$ 2,656	\$ 2,390	-	-	-	-	2,656	-	-	L
Planning	0	Heber Relay Upgrade	0%	\$ 25	\$ -	-	-	-	-	25	-	-	L
Planning	0	Jailhouse Lease Buyout or Extension	0%	\$ 100	\$ -	=	=-	100	=	-	-	-	L
Planning	0	Jailhouse Fence Replacement	0%	\$ 129	\$ -						129		M
				\$ 24,216	<i>\$</i> 11,175	2,513	3,386	15,377	71	2,740	137	5,772	
Systems & Technology	NT / 4	A	-00/	e 200	0		404	=0	0.5	50			37
Ongoing	N/A N/A	Annual IT Upgrades	0%	\$ 309 \$ 408	\$ - \$ -	-	124 318	50 30	85 30	50 30	44 30	-	M M
Ongoing Ongoing	N/A N/A	Annual OT Upgrades Fiber Improvements	0% 0%	\$ 408 \$ 110	\$ - \$ -	=	318 50	30 20	30 20	30 20	30 20	=	M M
Ongoing	N/A N/A	Smart Grid Investment	0%	\$ 50	\$ - \$ -		10	10	10	10	10	-	M
Ongoing	N/A	AMI Tower - North Village	0%	\$ 70	\$ -	-	-	70	-	-	-	_	M
0 0	-,	··o·		\$ 947	S -		502	180	145	110	104		-
Tools & Equipment													
Ongoing	N/A	Annual Tool & Equipment Purchases	0%	\$ 235	\$ -	-	55	45	45	45	45	45	M
-	•	• •											
Vehicle	**/:		-001		0				.=-	**-			· -
Ongoing	N/A	Annual Vehicle Program	0%	\$ 2,360	\$ -	_	435	300	170	635	820	500	M
				¢ 65 722	\$ 28,052	6,402	11 172	28 021	2 507	10 361	E 475	6 216	
				\$ 65,732	φ 28,032	0,402	11,173	28,921	3,507	10,361	5,475	6,846	

2027 - 2031 Polecasted Projects		4
Buildings		='
	Generator Plant 4	
Generation		
	Unit Overhauls (Multiple Years)	280
Lines		
	Lake Creek to Timberlakes Rebuild/Reconductor	350
	3-Phase Extension up Lake Creek Road from Timberlakes Gate	500
	East Substation Circuit Extension	400-900
	Cabin Developments Overhead to Underground Conversion	?
Substation		
	Battery Replacement Program (Multiple Years)	\$8/Yea
	Cloyes XFMR Upgrade (2028)	500
	Sorenson Substation (2029)	6,000
	Gas Plant 2 XFMR Upgrade (2028)	500
Systems & Technology		
	Server Upgrade (2027)	63